

# **University of South Carolina**

**Reports Required by *Government Auditing Standards*  
and the *Uniform Guidance***

***For the year ended June 30, 2020***

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# University of South Carolina

## Reports Required by *Government Auditing Standards* and the *Uniform Guidance*

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**University of South Carolina**  
***Schedule of Expenditures of Federal Awards***  
***For the year ended June 30, 2020***

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Research and Development Cluster</b>				
<b>US Department of Agriculture</b>				
Identifying Maimaiga Source Strength	10.680	17-CA-11420004-276	\$ -	\$ (1,806)
TOXIMAP: Computational Framework for Prediction of Geographical and Temporal Incidence of Mycotoxins in US Crop Fields	10.310	2017-67017-26167	-	(564)
Molecular Basis of Xenobiotic Metabolism and Resistance in Tetranychus urticae	10.310	2020-67014-31179	-	46,295
The Food Insecurity Experience Scale and Household/Individual Correlates of Food Insecurity	10.250	58-3000-5-0035	-	(185)
Molecular Characterization of Regulatory Factors Involved in Aspergillus flavus Development, Secondary Metabolism and Survival	10.001	58-6054-5-031	-	29,973
The CIG that Changed My Life? Capturing Value of Cover Crops and Soil Health	10.902	68-3A75-17-311	-	105,200
Using Cover Crops and Soil Health to Reduce Crop Stress and Aflatoxin Contamination	10.912	69-4639-16-269	-	14,229
<b>Passed through programs from:</b>				
<b>Clemson University</b>				
Field Schools and Bus Tours to support 'Advanced Soil Health Training for South Carolina Agriculture Professionals' Proposal for SARE PDP	10.215	2147-215-2013447	-	5,426
<b>SC Research Foundation</b>				
COPASCities: Childhood Obesity Prevention in SC Communities	10.310	2012-69001-19615	-	(3,422)
<b>Total US Department of Agriculture</b>			-	195,146
<b>US Department of Commerce</b>				
Evaluation of molecular analysis to identify and quantify ichthyoplankton samples	11.RD	1305M218PNFFN0048	-	3,191
Filling Critical Life History Information Gaps of Data-Poor Fisheries in U.S. Caribbean Waters: Age, Growth, and Reproduction of Queen Triggerfish and Four Species of Parrotfish	11.433	NA15NMF4330157	21,670	79,442
Building Adaptive Capacity in the Carolinas: The Carolinas Integrated Sciences & Assessments (CISA) Program	11.431	NA16OAR4310163	257,871	590,202
Caribbean Hogfish: Documenting Critical Life History Information For A Data-Poor Species				
In Collaboration With Puerto Rican Fishers	11.454	NA17NMF4540137	-	87,687
North Inlet - Winyah Bay National Estuarine Research Reserve	11.420	NA17NOS4200061	-	1,211
Continuing Support of the NERR Centralized Data Management Office	11.420	NA17NOS4200104	-	(2,401)
From Physics to Fisheries: a Social-Ecological Management Strategy Evaluation for the California Current Large Marine Ecosystem	11.431	NA17OAR4310270	-	23,273
Novel Approaches to Age Validation in Data-Poor U.S. Caribbean Reef Fishes	11.427	NA18NMF4270203	49,850	120,893
Conservation Genomics and Caribbean Fisheries Management: Stock Structure and Connectivity of Four Parrotfish Species and the Role of MPAs as Recruitment Sources	11.433	NA18NMF4330239	11,779	153,370
The North Inlet-Winyah Bay National Estuarine Research Reserve	11.420	NA18NOS4200009	-	127,005
Continuing Support of the NERR Centralized Data Management Office	11.420	NA18NOS4200120	-	496,793
The North Inlet - Winyah Bay National Estuarine Research Reserve	11.420	NA19NOS4200069	-	545,638
Support of the National Estuarine Research Reserve System Centralized Data Management Office and Enhancements to the System-Wide Monitoring Program	11.420	NA19NOS4200105	-	326,804
Shoals and Shipwrecks: Archaeological Explorations off Port Royal Sound, South Carolina	11.011	NA19OAR0110304	-	19,267
Utilizing Drought Forecasts to Develop Decision Calendars for Reoperation of California's Hydroelectric Reservoir Systems and Managed Aquifer Recharge	11.431	NA19OAR4310371	-	27,674
<b>Passed through programs from:</b>				
<b>Clemson University</b>				
Quantifying responses of salt marsh productivity to environmental variability over multiple time scales using novel field measurements	11.417	2024-223-2022509	-	5,223
Quantifying responses of salt marsh productivity to environmental variability over multiple time scales using novel field measurements	11.417	2105-223-2023141	-	14,781
<b>Florida Department of Environmental Protection</b>				
Florida Coastal Water Quality Monitoring Data Assessment, Access and Training	11.419	CM08P	-	(21,905)
<b>Louisiana State University</b>				
EESLR 2016 Dynamic sea level rise assessments of the ability of natural and nature-based features to mitigate surge and nuisance flooding	11.478	PO-0000010922	-	117,610
<b>SC Sea Grant Consortium</b>				
Vulnerability of Stormwater Management Ponds to Sea Level Rise and Flooding	11.417	A/E-SG8	-	8,725
Vulnerability of Coastal Stormwater Management Ponds to Non-Stationarity and Compound Effects of Sea Level Rise and Inland Flooding	11.417	A/E-SG9	-	14,958
Advancing Understanding of Risk: Expanding the Use of Elevation Certificates in Damage Assessments and Resilience Planning	11.417	AMD9-A (R/RR-1)	-	9,754
Innovative Fish Ageing Methods for Rapid Detection of Climate-Driven Changes in Population Demography	11.417	R/CF-23	7,015	49,316
Relating Nonpoint Source BOD Loading to Land-Use and Stormwater Management Practices in Coastal South Carolina	11.417	R/CG-3	-	43,143
Subcontract to Building Regional Resilience to Water-Related Hazards in the Charleston, SC Region: A Charleston Resilience Network Initiative	11.473	R/CRN-1a	-	20,146
Development of Models for Pyhtoplankton-Nutrient Responses in Support of Numeric Nutrient Criteria for Estuarine Water Quality	11.417	R/ER-49	-	70,098
<b>SE Coastal Ocean Observing Regional Association</b>				
Southeast Coastal Ocean Observing Regional Association (SECOORA): Hurricane Supplemental - Repairs	11.022	(015)USC.GV.SUP.REPAIRS.1	-	1,225
Southeast Coastal Ocean Observing Regional Association (SECOORA): Supporting Resilient Ecosystems, Communities and Economies: Integrated Decision Support and Management Tools for Adaptive Public Health Practices: An Early Warning System for Swimming	11.012	IOOS.16(028)USC.DP.MOD.1	9,963	95,308
Integrating Biological Sound and Noise Measurements into Regional Coastal Ocean Observing Systems (RCOOS) in Estuaries of South Carolina	11.012	IOOS.16(028)USC.EM.MOD.1	3,987	27,179
Southeast Coastal Ocean Observing Regional Association (SECOORA): Supporting Resilient Ecosystems, Communities and Economies Operate and Maintain University of South Carolina IOOS Priority High Frequency Radars in SECOORA	11.012	IOOS.16(028)USC.GV.OBS.1	-	104,373
<b>University of Michigan</b>				
A Collaborative Science Program for the National Estuarine Research Reserve System: With End Users Throughout the Applied Research Process	11.419	3003300692	-	72,189
From NECAP to GCAP: Transferring Climate Adaptation Knowledge and Tools from New England to Georgetown, SC	11.419	3004694006	6,677	8,060
<b>Virginia Institute of Marine Sciences</b>				
NOAA MARFIN and CRP: Assessment of Maturity in Commercially and Recreationally Important Reef Fishes from the U.S. Virgin Islands and Puerto Rico	11.433	719583-712683	-	1,458
<b>Total US Department of Commerce</b>			368,812	3,241,690
<b>US Department of Defense</b>				
Archeological Phase I Survey 1500 Acres, Fort Bragg, North Carolina	12.300	21300FB10	-	1,591
Predictive Sensing of Aerospace Composite Structures	12.800	FA9550-16-1-0401	-	94,854
Number Theory Meetings in the Southeast	12.901	H98230-18-1-0233	-	6,581
Highly Effective Computational Methods in Geomagnetic Field Modeling	12.630	HM04761812002	-	137,763
Upper Ocean Mixing Processes and Circulation in the Arabian Sea during Monsoons using Remote sensing, Hydrographic observations and HYCOM simulations	12.300	N00014-15-1-2591	-	17,852
Bubble/Vapor Slug Dynamics in a Confined Domain	12.300	N00014-16-1-2307	-	327
High-Speed, Scalable, System Level, Real-Time Simulation	12.300	N00014-16-1-3042	-	53,960
Response of the Bay of Bengal to the Atmospheric Intraseasonal Oscillations	12.300	N00014-17-1-2468	-	130,036
Experimental and Analytical Study of Low Amplitude AE signals due to Rubbing/Clapping of Crack Faying Surfaces	12.300	N00014-17-1-2829	-	120,999

***The accompanying notes are an integral part of this schedule***

**University of South Carolina**  
***Schedule of Expenditures of Federal Awards***  
***For the year ended June 30, 2020***

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Research and Development Cluster, Continued</b>				
<b>US Department of Defense, continued</b>				
The Pre and Post of Hardware In the Loop Experiments for Power Electronic Power Distribution Systems	12.300	N00014-19-1-2060	-	154,935
Distributed Condition Prognostics System for Navy Shipboard Machinery	12.300	N000174-17-1-0006	10,777	103,419
Toward Fully Electrically Reconfigurable Communication System	12.300	N00174-19-1-0015	-	49,888
SSC Atlantic (SPAWAR): Economic Impact Analysis	12.RD	N6523619P0022	-	142,550
Dysregulation of the PACT-mediated crosstalk between protein kinases PKR and PERK contributes to dystonia 16 (DYT16)	12.420	W81XWH1810088	-	80,636
Understanding Gut-Microbiome links to Gulf War Illness persistence and development of gut-dysbiosis targeted therapy	12.420	W81XWH1810374	97,039	373,178
TP53 Synthetic Lethal Screen in Organoid Avatars to Discover Novel Therapeutic Targets for Colon Cancer	12.420	W81XWH1910847	-	364,888
Teriparatide: Stress Fracture Recovery fOr ReturNinG to Duty (Teriparatide: STRONG)	12.420	W81XWH1920051	-	28,501
Optimal Functionally Graded Cellular Materials (FGCMs) to Mitigate Shock and Impact Loading	12.431	W911NF-18-1-0023	-	139,941
High Efficiency Micro/Nano-pillar UVC Light Emitting Diodes	12.431	W911NF-18-1-0029	-	154,181
How Inequality and Segregation Shape (and are Shaped by) Cooperation and Collective Action	12.431	W911NF1910281	69,098	102,120
Archeological Testing at 14 Sites, Fort Bragg, North Carolina	12.300	W9126G1820060	-	25,054
Proposal National Register Evaluations for Five Late Discoveries and Curated Collections Maintenance for the Fort Jackson Cultural Resources Program	12.300	W9126G-19-2-0055	-	71,532
Predicting Long-term Salt Marsh Response to Episodic Sediment Deposition Events Under Sea-level Rise	12.630	W912HZ-16-2-0019	-	(10,420)
NROTC Educational Instruction Calculus and Physics	12.RD	US NAVY/DOD	-	392
<b>Passed through programs from:</b>				
<b>Brown University</b>				
Fractional PDEs for Conservation Laws and Beyond: Theory, Numerics and Applications	12.431	00000851	-	34,275
<b>Carnegie Mellon University</b>				
Near Real Time Assessment of Emergent Complex Systems of Confederates	12.300	1141302-385716	-	68,458
Online Transfer Learning and Self-Adaptation of Robots	12.300	1150139-406688	-	54,003
<b>CFD Research Corporation</b>				
A Real-time Analysis Tool based on Surrogate Models for Accurate Prediction of Combined Flight External Loads	12.RD	9246	-	12,070
Multi-objective Evolutionary Algorithms for Surrogate-based Optimization of Multi-disciplinary Guided Weapon Systems	12.RD	9355	-	13,742
Algorithms and Module Development for Accurate and Rapid Load Analysis and Design of Experiments	12.RD	20180064	-	155,746
An Intelligent Framework to Develop Adaptive Parametric Reduced Order Model Database for Aerostructural Control (CFDRC Project No. 9333)	12.RD	20180338	-	6,455
Multi-fidelity Surrogate Modeling for Multi-Source Data Consolidation (CFDRC Project No. 9335)	12.RD	20180339	-	8,152
Online Machine Learning for Real-Time Monitoring and Control of Mechanical Systems	12.RD	20180377	-	34,669
Model Order Reduction for Fast and Rapid Simulation of Human and Vehicle Thermal Signatures	12.RD	20190046	-	15,657
Multi-fidelity Surrogate Modeling and Data Fusion for Accurate Structural Buffet Load Prediction	12.RD	20190595	-	39,085
A Plug-and-Play (PnP) Tool based on in-site Adaptive Neural Network Models for Real-Time Monitoring and Control of Mechanical Systems	12.RD	20190772	-	1,832
<b>Clemson University</b>				
Time for Robotics-Technology in Manufacturing Education for Robotics	12.300	2072-202-2012941	-	12,400
<b>Concurrent Technology Corporation</b>				
ONR Corrosion FNC REPAIR TOOL	12.RD	150200016	-	2,975
<b>Cornell University</b>				
The Soldier-to-Veteran Transition: A Study of High Risk Behavior	12.420	80583-11224	-	40,251
<b>Directed Vapor Technologies Internation</b>				
High Friction Ballistic Fibers for Improved Ballistic Protection	12.RD	D0168-01	-	15,944
<b>Florida State University</b>				
Electric Ship Research and Development (ESRDC FY17-21)	12.300	R01851	-	872,192
ESRDC – Support for Undergraduate Research Participants	12.300	R02120	-	16,237
<b>Georgia Institute of Technology</b>				
Leveraging a New Theoretical Paradigm to Enhance Interfacial Thermal Transport In Wide Bandgap Power Electronics	12.300	RK015-G2	-	221,281
<b>Georgia Southern University</b>				
Jekyll Creek Thin Layer Placement Evaluation and Analysis of Ecosystem Response	12.630	39G9579-001	-	36,787
<b>GTD Unlimited</b>				
System of Systems Control Interactions	12.RD	hq017-17-c-7110	-	53,576
<b>Hitron Technologies</b>				
A Remote Egg-oiling System with Autonomous and Automated Target Object Identification for Nuisance Bird Management	12.RD	U00026691	-	57,020
<b>Louisiana State University</b>				
Developing Composite Time Series Restoration Trajectories in Salt Marsh Habitat	12.630	PO-0000118157	-	6,412
<b>Morgan State University</b>				
Cubic Boron Nitride: A New Extreme Semiconductor by Ion-Beam Assisted Chemical Vapor Deposition	12.800	MSU_USC10122	-	20,041
<b>National Science Teachers Association</b>				
USC Junior Science and Humanities Symposium for South Carolina - 2019	12.630	19-871-029	-	240
USC Junior Science and Humanities Symposium (JSHS) 2020	12.630	20-871-037	-	8,010
<b>Northeastern University</b>				
Beyond the Cultural Horizon: Mapping Relational Norms Within Social Networks	12.431	504082-78050	-	133,260
<b>Physical Sciences Incorporated</b>				
Additive Manufacturing for Lithium-Ion Batteries	12.RD	SC 82121-4073-46	-	3,502
<b>SC Office of the Adjutant General</b>				
Medium and Large Wildlife Diversity and Abundance at the McCrady Training Site 2017-19	12.RD	4100079436	-	30,395
A Medium and Large Mammal Survey of the McCrady Training Center 2018	12.RD	4100079438	-	31,058
Medium and Large Wildlife Diversity and Abundance at SCARNG Training Sites - 2020	12.RD	4100084826	-	17,800
<b>SC Research Foundation</b>				
Phase II SBIR with Reify	12.RD	15540FD56	-	14,343
<b>Structured Materials Industries</b>				
STTR: Tooling and Processing for Low Temperature Homogeneous Epitaxy of 4H-SiC Using Novel Precursors	12.RD	42139	-	664
<b>Tel Aviv University</b>				
Threat monitoring and behavioral health throughout the deployment and career cycles: A translational study	12.420	0610715871	-	19,259
<b>Texas Research Institute-Austin, Inc.</b>				
NDE based Condition Assessment of Sub-Surface Concrete with Limited Access	12.RD	F-30122-500-01-SC1701	-	(898)
NDE Based Condition Assessment of Sub-Surface Concrete with Limited Access – Phase II	12.RD	F-30141-500-01-SC1784	-	70,557
<b>The Ohio State University</b>				
AlN-Based Extreme Band Gap mm-wave Electronics	12.300	60063064	-	191,737
<b>UES</b>				
Dendroid Core Detection and Tracking for Directionally Solidified Ni-Based Alloys	12.RD	S-109-5D7-001	-	3,095
<b>Universal Technology Corporation</b>				
Integration of NMR Interpretation Tool in Surrogate Formulation and High Pressure Laminar Flow Reactor for Species Diagnostics in Jet Fuel Combustion	12.RD	17-7900-0006-03-C2	-	79,560
<b>University of Dayton Research Institute</b>				
Real-Time High-rate Decision Making for Functional Prognosis of Complex Mechanical Systems	12.RD	RSC19009	-	45,479
<b>Virginia Tech</b>				
The Effect of Humidity and Partide Composition on Partitioning of Volatile Organic Compounds	12.431	45038819545	-	1,163
<b>Wake Forest University Health Sciences</b>				
Influence of Prostate Cancer Treatment on Work Experiences with Focus on Race and Income	12.420	102300-112859	-	15,393
<b>Total US Department of Defense</b>			176,914	4,808,635

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University of South Carolina  
Schedule of Expenditures of Federal Awards  
For the year ended June 30, 2020

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Research and Development Cluster, Continued</b>				
<b>US Department of Interior</b>				
Archaeological Research and Educational Program for the Southern Campaigns	15.945	P16AC01544	-	34,253
Congaree River Freshwater Mussel Habitat Survey	15.678	F17AC00529	-	9,081
Sediment Trapping Program in the Gulf of Mexico	15.RD	G17PX00135	-	10,968
Appomattox Court House Historic Park CESU - Archaeological Survey of Hannah Reynolds Site	15.945	P17AC00668	-	8,007
Compilation of Total Fecal Coliform, E. coli and Enterococcus spp. Sampling at Southeastern Coastal National Parks	15.945	P18AC01339	-	1,918
Booker T Washington National Monument (BOWA) Archaeological Reanalysis	15.945	P19AC00586	-	2,378
<b>Passed through programs from:</b>				
<b>Clemson University</b>				
Fecal Coliform Pollution and Antibiotic Resistance in Sand River in Aiken, SC	15.805	2131-213-2021202	-	10,991
<b>NC State University</b>				
Conservation Adaptation Planning for Landscape and Climate Changes in the Southeast	15.820	2014-3086-01	-	72,823
<b>SC Department of Natural Resources</b>				
South Carolina Continental Shelf Seismic Data Extraction for Offshore Sand Resources: Data Inventory, Digital Data Conversion, and Needs Assessment	15.424	SCDNR FY2017-015	-	11,204
<b>Smith College</b>				
Fate and Impacts of Silver Nanoparticles in Treatment Wetlands	15.805	636916-1	-	9,441
<b>Total US Department of Interior</b>			-	171,064
<b>US Department of Justice</b>				
Interconnecting PBIS and School Mental Health to Improve School Safety: A Randomized Trial	16.560	2015-CK-BX-0018	374,204	457,660
An Evaluation of a Social Interaction Training Program to Reduce the Use of Force and Build Legitimacy	16.560	2016IJ-CX-0018	56,936	125,851
Youth Violence and Victimization: Predicting Responses to Peer Aggression	16.560	2016-R2-CX-0056	27,457	32,621
<b>Passed through programs from:</b>				
<b>City of Columbia</b>				
Ceasefire Columbia	16.609	P174986	-	21,062
<b>University at Buffalo, SUNY</b>				
Atypical Work Hours and Adaptation in Law Enforcement: Targets for Disease Prevention - Subcontract W/The Research Foundation for SUNY on behalf of University at Buffalo	16.560	R1218292	-	2,231
<b>Total US Department of Justice</b>			458,597	639,425
<b>US Department of Labor</b>				
<b>Passed through programs from:</b>				
<b>SC State Board for Technical and Comprehension Education</b>				
Apprenticeship Carolina - ROI Analysis	17.268	4000034681	-	35,475
<b>Total US Department of Labor</b>			-	35,475
<b>US Department of State</b>				
Justice Sector Training, Research, and Coordination Program (JusTRAC)	19.703	S-INLEC-14-CA-1034	-	254,257
Justice Sector Training, Research, and Coordination Plus (JusTRAC+) Program Project 1	19.703	SINLEC18CA2068	-	355,732
Combatting Corruption in Conflict Countries (C-4)	19.703	S-INLEC18CA2071	149,229	195,031
<b>Total US Department of State</b>			149,229	805,020
<b>US Department of Transportation</b>				
Longitudinal Stress Measurements in Rail Using a Non-Contacting Reference-Free Vision-Based Approach	20.RD	693JJ619C000007	-	62,582
Intelligent Crossing Assessment and Traffic Sharing System (i-CATSS)	20.RD	693JJ619C000009	-	56,209
<b>Passed through programs from:</b>				
<b>Clemson University</b>				
Center for Connected Multimodal Mobility	20.701	1919-211-2021810	-	169,935
<b>Total US Department of Transportation</b>			-	288,726
<b>National Aeronautics and Space Administration</b>				
Cooperation and adaptability in microbial mats from extreme environments: Quorum sensing and its relation to early life on Earth and elsewhere	43.001	80NSSC18K1064	-	36,340
Compact, Robust Spatial Heterodyne Raman Spectrometer for Planetary Exploration	43.001	80NSSC19K1024	29,406	156,478
ECOSTRESS- Heat and Desiccation Risk Prediction in Intertidal Shellfisheries	43.001	80NSSC20K0074	-	23,320
FINESST 3yr: Optimizing WFIRST Surveys: Precision Cosmology with Gravitationally Lensed Supernovae	43.001	80NSSC1414	-	29,775
TC1 2C19: High Energy Dynamic Impact	43.002	C15-2A38-USC	-	149,546
2C22 - TC3 - Design for Manufacturing (DFM) Software Development	43.002	C16-2A38-USCAR	-	458,380
Mathematical Modeling and Simulation of Space based Droplet Combustion - Scientific Support to the FLEX1 and FLEX2 Program	43.007	NNX14AG46A	-	44,014
Effect of External Thermo-Convective Perturbation on Cool Flame Dynamics: A Multidimensional Multi-Physics CFD Analysis	43.007	NNX17AF97A	-	22,903
Connecting the Different Signatures of Interstellar Dust at Low Redshift: A Benchmark for Comparison to the Distant Universe	43.001	NNX17AJ26G	20,188	156,055
University Leadership Initiative: Hyper-Spectral Communications, Networking & ATM as Foundation for Safe and Efficient Future Flight: Transcending Aviation Operational Limitations with Diverse and Secure Multi-Band, Multi-Mode, and mmWave Wireless	43.002	NNX17AJ94A	857,753	1,302,011
Research Scientist in Automated Fiber Placement and Associate Technologies	43.RD	T18-606016-USC	-	123,392
<b>Passed through programs from:</b>				
<b>Advent Innovation Limited Company</b>				
Damage Detection Using Two-Stage Compressive Sensing	43.RD	U00026991	-	34,887
<b>CFD Research Corporation</b>				
Nonlinear Parameter-Varying Aeroservoelastic Reduced Order Model For Aerostructural Sensing And Control	43.RD	9172	-	7,464
Structural Dynamic and Aerodynamic Reduced Order Models for Aerospace Vehicles Applications	43.RD	20180168	-	28,034
An Intelligent Framework to Develop Adaptive Parametric Reduced Order Model Database for Aerostructural Control (CFDRC Project No. 9397)	43.RD	20190664	-	38,831
<b>College of Charleston</b>				
Explore a Unified, Ultra-efficient, and Gravity-insensitive Flow Boiling Regime for Space Missions	43.008	521154-USC	-	(29,163)
USC SC Space Grant Consortium Award	43.008	521179-CD-USC	-	1,826
Advanced Solid Oxide Cell Technology to Support NASA's Planetary Exploration Missions	43.008	521179-PA-SC001	-	12,000
Novel 3D Semi-woven Fiber-reinforced Composite Architectures for Enhanced Impact and Damage Tolerance	43.008	521179-RP-SC002	-	1,237
Flying Lens Spectrometer for Planetary Exploration	43.008	521179-RP-SC003	-	11,799
Tailoring Structure-Property Relationships of Fiber-reinforced Hybrid Composite Architectures for Enhanced Impact and Damage Tolerance	43.008	521179-RP-SC004	-	19,972
Biomimetic Scaffolds for Predicting Breast Cancer Metastasis in Microgravity	43.008	521179-RP-USCEhsan	-	(3,263)
Biomaterial implants for the prevention and treatment of microgravity induced muscle atrophy. (PI - Kyle Lackey) - Unraveling the Structure and Star Formation History of Polar Ring Galaxies	43.008	521192-USCGower	-	9,120
Utilization of NASA's SMAP Salinity and GPM Precipitation for Indian Ocean Monsoon Studies	43.008	521193-SC001	-	12,000
Controls on Floodplain Circulation Defined by In Situ Observations, Numerical Simulations and Remote Sensing	43.008	521193-SC002	-	10,663
Robust Software Testing of Autonomous Aerospace Robotic Systems Using Transfer Learning	43.008	521253-USC	-	136,959
Facile and Rapid Detection for Life Exploration in Space by Nanofluidic Electrophoretic Devices	43.008	521340-SC001	-	22,484
	43.008	521340-SC002	-	25,738

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University of South Carolina  
Schedule of Expenditures of Federal Awards  
For the year ended June 30, 2020

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Research and Development Cluster, Continued</b>				
<b>National Aeronautics and Space Administration, continued</b>				
<b>Passed through programs from, continued:</b>				
<b>College of Charleston, continued</b>				
SC Space Grant Consortium Graduate Research Fellowship: SAFE Space Suit: Adaptive and Sensing Garment (NASA Graduate Fellowship for Gabrielle Leith)	43.008	521383-GRF-USC002	-	2,300
Oxygen Production from Carbon Dioxide to Support Planetary Exploration Missions	43.008	521383-PA-SC001	-	21,198
Advanced Solid Oxide Electrolysis Cells to Support NASA's Planetary Exploration Missions	43.008	521383-RP-USC001	-	16,197
<b>Global Technologies</b>				
Operation-Aware ISHM for Environmental Control and Life Support in Deep Space Habitants	43.RD	NNX17CA31P	-	71,715
<b>Jacobs Technology, Inc.</b>				
Development of a TSA Process for CO2 Removal Using a Structured 13X Adsorbent: Part IV	43.RD	18N0661	-	19,793
Development of a TSA Process for CO2 Removal Using a Structured 13X Adsorbent: Part V	43.RD	19N0778	-	67,313
<b>NanoMEMS Research, LLC</b>				
Plasmon-Plasmon Scattering Digital Logic	43.RD	U00027122	-	32,508
<b>Rensselaer Polytechnic Institute</b>				
The DEEP Project: DETecting Extraterrestrial Piezophiles in Ocean World Analogs	43.001	A18-0010-S001	-	30,210
Reconciling Prebiotic Paradigms: Mapping Planetary Reality onto Experimental Strategies	43.001	A19-0117-S004	-	39,205
<b>Rochester Institute of Technology</b>				
Investigating the Role of Pre-Shear and Pre-Stretching in the Transient Extensional Flow of Dilute Polymer Solutions: Modeling Benchmarking and Numerical Simulations	43.003	31991-01	-	23,685
<b>SC Research Foundation</b>				
Turning Gravitationally Lensed Supernovae into Cosmological Probes	43.RD	HST-AR-15050.002-A	-	12,133
The Stellar Continuum Light from Damped Lyman-alpha Absorber Galaxies Detected with Integral Field Spectroscopy	43.RD	HST-GO-13733.002-A	-	18,986
Probing Structure in Cold Gas at z <~ 1 with Gravitationally Lensed Quasar Sightlines	43.RD	HST-GO-13801.001-A	-	16,402
Damped Lyman-alpha Systems in the Disks of Low-z SDSS Galaxies on Top of QSOs	43.RD	HST-GO-14137.004-A	-	1,477
<b>Skyre, Inc.</b>				
Spacecraft Cabin Carbon Dioxide Removal	43.RD	15540FD90	-	(3,806)
Develop and Apply Hydrophobic Coating to Cell Support Structures for Skyre Hydrogen Pump	43.RD	80NSSC19C0066	-	75,500
CO2 Electrochemical Concentration Technology Development	43.RD	U00027208	-	2,330
<b>Southeastern Universities Research Association</b>				
Radiation Effects on Pollen, Seeds and Plants	43.RD	C2019-USCC-01	-	48,940
<b>Space Telescope Science Institute</b>				
SALT3: Taking the Type Ia Supernova Cosmology Workhorse to Longer Wavelengths	43.RD	HST-AR-15808.011-A	-	33,101
The stellar populations of gas-rich absorbing galaxies detected with VLT/MUSE and ALMA: the essential link to the baryon cycle	43.RD	HST-GO-15939.017-A	-	1,696
<b>The Regents of the University of California</b>				
Optimizing the WFIRST Type Supernova Survey	43.RD	A17-0899-S003-P0632067	-	84,105
<b>Woods Hole Oceanographic Institution</b>				
Elucidating Spatial and Temporal Variability in the Export and Attenuation of Ocean Primary Production using Thorium-234	43.001	23175500	-	50,643
<b>Total National Aeronautics and Space Administration</b>			907,347	3,508,433
<b>National Endowment for the Humanities</b>				
Technology, Listening and Labor: Music in New Hollywood Film (1968-1980)	45.160	FEL-262699-19	-	49,242
NEH Fellowship: Shaking the Empire: Dadabhai Naoroji and the Birth of Indian Nationalism	45.160	FEL-262705-19	-	47,700
Evolution in Digital Discourse: Toward a Computational Tool for Identifying Patterns of Language Change in Social Media	45.169	HAA-261240-18	-	13,480
META 2: Furthering Our Understanding of the Economic Value of Public Library Services	45.312	LG-96-18-0240-18	-	43,963
Examining Public Library Service to LGBTQ Communities for Health-related Information	45.313	RE-07-18-0066-18	-	70,852
Educational Quality through Instructional Partnerships (EQulP): Assessing the Efficacy of Collaboratively Implemented Guided Inquiry Design on K-12 Student Learning	45.313	RE-14-19-0001-19	-	72,933
The Revolutionary Era Pinckney Statesmen of South Carolina, A Digital Documentary Edition: Phase 3	45.161	RQ-255751-17	-	96,305
<b>Passed through programs from:</b>				
<b>SC Department of Natural Resources</b>				
SnowVision: A Machine Learning-Based Image Processing Tool for the Study of Native American Paddle Designs	45.169	SCDNR FY2020-028	-	34,944
<b>SC Humanities Council</b>				
USCB and SCETV's By The River: Season 2 Author Honorariums	45.129	19-1921-2	-	2,000
<b>Total National Endowment for the Humanities</b>			-	431,419
<b>National Science Foundation</b>				
Center for Rational Catalyst Synthesis (CeRCaS) I/UCRC Phase II	47.041	193876	-	36,666
Collaborative Research: RUI: Human Alteration of Sediment Delivery to the Coast Legacies of Land Use, Coastal Wetland Accretion, and Future Vulnerability to Sea Level Rise.	47.074	1457622	-	(2,344)
GEO-Scholar: Broadening undergraduate participation in the geosciences	47.076	1458416	-	129,739
Collaborative Research: On the Origin of Atomic Layer Deposition Enhanced Activity and Stability of Nanostructured Cathodes for Intermediate-temperature Solid Oxide Fuel Cells	47.049	1464112	-	57,867
Studies of the Activation and Functionalization of Hydrocarbons at Multinuclear Metal Sites in Transition Metal-Gold Complexes	47.049	1464596	-	(3,174)
Collaborative Research: I/UCRC Phase I: Center for Rational Catalyst Synthesis	47.041	1464630	14,357	189,412
Stability, Derived Categories, and Mirror Symmetry	47.049	1501813	-	9,782
GOALI: Collaborative Research: Energy Harvesting Nanorods-enhanced MEMS Temperature-insensitive Gas Sensor for Combustion Monitoring and Control	47.041	1508139	-	3,964
Collaborative Research: Fate and Control of Naturally Occurring Radioactive Material (NORM) Produced by Unconventional Gas Industry	47.041	1509086	-	2,456
UNS: Engineered Nanomaterial Impact on Long-Term Stability of MSW Landfill and Leachate Treatment Pond Geomembrane Liners	47.041	1510869	-	36,062
High Surface Free Energy Anchoring of Bimetallic Core Shell Particles	47.041	1511615	-	(336)
II-New: Acquisition of a Heterogeneous Team of Field Robots for Coastal Environments	47.070	1513203	-	(5,668)
TWC SBE: Medium: Context-Aware Harassment Detection on Social Media	47.070	1513721	-	21,181
Collaborative Research: Kinetic to Continuum Modeling of Active Anisotropic Fluids	47.049	1517347	-	23,289
RI:Small:Collaborative Research: Why is automating the design of robot controllers hard, and what can be done about it?	47.070	1526862	-	1,943
DMREF: Collaborative Research: Design and Discovery of Multimetallic Heterogeneous Catalysts for a Future Biorefining Industry	47.041	1534260	-	94,549
Collaborative Research: Investigating the Lost City as an Ultramafic Urban Center of the Subseafloor, Fueled by Energy and Carbon from the Mantle	47.050	1536702	-	3,258
Collaborative Research: Generation of Internal Waves Due to the Scattering of Semidiurnal Hybrid Kelvin-edge Waves at Varying Continental Shelf Topography	47.050	1537449	-	47,223
Collaborative Research: Affordable and Energy Efficient Engineered Earth Masonry for Seismic Resistant Low-Rise Buildings	47.041	1537776	-	(6,353)
DIMENSIONS: Links Between Spectral Irradiance and Cryptophyte Biodiversity in Environments from Ponds to Oceans	47.074	1542555	-	229,732
CAREER: Well-Defined Hybrid Materials as a Versatile Tool to Study Energy Transfer Processes	47.049	1553634	-	94,723

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<b>Research and Development Cluster, Continued</b>				
<b>National Science Foundation, continued</b>				
CAREER: Detection and Quantification of Metal-Based Engineered Nanoparticles in Surface Waters	47.041	1553909	-	63,244
CAREER: Mechanism of Cytochrome P450 Alkene Biosynthesis	47.049	1555066	-	97,082
Mutational Variance of the Transcriptome and the Origins of Phenotypic Plasticity	47.074	1556645	-	153,828
A New Method for Assessing the Magnitude and Impact of Shallow Seawater/Pore water Exchange in Salt Marsh Systems	47.050	1559274	-	(799)
Collaborative Research: SusChEM: Rational Design of Non-Precious Metal Catalysts for a Future Biorefining Industry	47.049	1565964	-	163,790
Molecular Dynamics with Nuclear Quantum Effects: Bridging Classical and Quantum Regimes	47.049	1565985	-	139,181
Extremal and Probabilistic Combinatorics with Applications II	47.049	1600811	-	9,652
Interaction of Nitrogen and Sulfur Species with Oxygen Carriers in Chemical Looping with Oxygen Uncoupling	47.041	1606874	-	118
Facial Amphiphilic Antimicrobials Biomaterials Containing Fused Multicyclic Structures	47.049	1608151	11,404	100,250
Functional Organic Nanotubes from Self-Assembled Bis-Urea Macrocycles	47.049	1608874	-	1,925
Rational Design of Surface Modified Nanoparticles for Modulation of Amyloid Protein Aggregation	47.049	1609939	-	4,936
Equilibrium Thermodynamics of Semiconductor Nanocrystal Ligand and Ion Exchange via Calorimetry	47.049	1613388	-	47,974
Neutrino-less Double-Beta Decay with CUORE and the MAJORANA DEMONSTRATOR	47.049	1614611	-	144,366
Collaborative Research: Equipment for the PSI MUSE Experiment	47.049	1614773	-	131,790
Fractional PDEs and related nonlocal models: fast numerical methods, analysis, and application	47.049	1620194	-	130,643
Hybrid Computational Methods and Algorithms for Complex Biological Systems	47.049	1620212	-	50,100
Collaborative Research: Water Concentration and Distribution in the Oceanic Lithosphere	47.050	1624315	-	61,132
Collaborative Research: The Embeddedness of Indirect and Generalized Reciprocity	47.075	1626056	-	29,271
DMREF: Collaborative Research: Designing Optimal Nanoparticle Shapes and Ligand Parameters for Polymer-Grafted Nanoparticle Membranes	47.041	1629052	-	101,150
Impact of Ocean Acidification on Planktonic Foraminifera in the California Current System during the Last 300 Years	47.050	1631977	-	21,337
NRI: Enhancing Mapping Capabilities of Underwater Caves using Robotic Assistive Technology	47.070	1637876	-	(13,336)
CAREER: Revealing the Mechanisms that Determine How an Active DNA Transposable Element Impacts the Genome	47.074	1651666	-	127,640
CAREER: An All-Optical Plasmonic Device to Control and Coupled Quantum Dots for Optical and Quantum Information Processing	47.041	1652720	-	107,548
CAREER: The Fundamental Principles of Modified Carbon Fiber Microelectrodes as Speciation Sensors	47.049	1654111	-	124,680
CAREER: Carborane Cluster Architectures Featuring Multiple Metal-Boron Interactions	47.049	1654301	-	107,532
LTREB: Long Term Studies of Salt Marsh Primary Production	47.074	1654853	-	71,906
Identifying a New Circuit That Controls Feeding Behavior: Leptin and Serotonin Interactions	47.074	1656626	-	232,654
Algorithm Development for Reconstruction of Design Elements	47.075	1658987	-	70,692
REU SITE: Collaborative Research: Integrated Academia-Industry Research Experience for Undergraduate in Smart Structure Technology (IAIRESST)	47.041	1659507	-	26,375
REU Site: Applied Computational Robotics	47.070	1659514	-	95,313
Standardized Goodness of Fit Assessment and Power Computations in Structural Equation Models	47.075	1659936	-	19,330
University of South Carolina Science and Mathematics Teachers Initiative Phase 2 (USC-SMTI P2): Continuing to Improve Teacher Preparation & Retention	47.076	1660700	5,000	290,170
Collaborative research: The Role of pCO2 in the Astronomically-Paced Climatic Cycles of the Miocene	47.050	1702783	-	21,722
SusChEM: GOALI: Drinking Water Safety and Sustainability: Identifying Key Chemical Drivers of Toxicity for Long-Term Solutions in the United States	47.041	1705206	23,757	54,718
Plasma Discharge in Liquids: Understanding the Initiation and Formation Mechanisms of Non-Thermal Plasma in Dense Medium	47.049	1707282	-	68,186
Multidimensional Methods for Kinetics in Complex Materials	47.049	1707813	-	136,654
Collaborative Research: Fundamental Understanding of the Environmental Fate of Disinfection By-Products arising from Desalination Plants	47.049	1708461	-	48,776
Comprehensive Models of Non-Covalent Aromatic Interactions	47.049	1709086	-	137,752
SusChem: In-situ oligomerization to immobilize contaminants in groundwater.	47.049	1709786	-	59,646
Minority Carriers in Graphene/SiC Schottky Emitter Bipolar Phototransistors for High Gain Visible Blind UV Detection	47.041	1711322	-	53,015
An Integrated Framework for the Optimal Control of Vehicle-to-Grid Systems	47.041	1711767	14,651	89,721
Nonlinear Approximation in Geometric, Harmonic and Anisotropic Settings with Applications	47.049	1714369	-	56,950
Collaborative Research: Efficient, Stable and Accurate Numerical Algorithms for a class of Gradient Flow Systems and their Applications	47.049	1720212	-	53,183
Optimal Convergence Rates for hp-Adaptivity	47.049	1720297	-	19,626
SBE-RCUK: Diet, Migration, and Health in the Context of Medieval Mortality Crises	47.075	1722491	-	43,468
Collaborative Research: Scalable and Flexible Algorithms to Detect Structural Change in Complex Sequence Data	47.049	1722562	-	15,712
Technique Development for Caffeinated Beverage Identification	47.075	1724426	11,747	17,814
Collaborative Research: Mathematics Graduate Student Peer-Mentorship Program: Impact and Adaptability	47.076	1725295	-	41,400
Collaborative Research: SAVANT: Stable Atmospheric Variability AND Transport	47.050	1733746	-	52,371
Type I: University of South Carolina I-Corps Site for Entrepreneurship	47.041	1735728	-	42,177
Collaborative Research: US GEOTRACES PMT: Sources and Rates of Trace Element and Isotope Cycling Derived from the Radium Quartet.	47.050	1736321	-	22,547
Groundwater Sources of ?new? N for Benthic Microalgal Production in the South Atlantic Bight	47.050	1736557	-	259,973
The Molecular Nature of Environmentally Persistent Free Radicals on Nanoparticles	47.083	1738337	-	69,575
RII Track-4: Molecular Understanding of Salt-Induced Selective Aggregation and Selective Sorption of Dissolved Organic Matter to Natural Particles	47.083	1738340	-	80,213
CPS: Medium: Collaborative Research: Against Coordinated Cyber and Physical Attacks: Unified Theory and Technologies	47.041	1739886	-	148,493
CAREER: Multi-scale Modeling of Biological Gels by Coupling Langevin Equations and Fractional Viscoelastic Constitutive Models	47.049	1751339	-	52,285
CAREER: Quantifying the Response of Rivers and Floodplains to Changes in Climate and Land Use	47.041	1751926	-	81,088
CAREER: Tunable Isomorphic Architectures	47.049	1752615	-	151,488
Collaborative Research: Investigating Initiation and History of the Aleutian Arc and Composition and Significance of North Pacific Seafloor via Dredge Samples from the R/V Sonne	47.050	1753518	-	69,350
CSBR: Living Stocks Support for the Peromyscus Genetic Stock Center	47.074	1755670	-	66,924
Collaborative Research: Teacher Leadership (T-Lead): Investigating the Persistence and Trajectories of Noyce Master Teaching Fellows	47.076	1758438	-	41,292
Targeting of Salicylic Acid-Activated NPR1 by a Bacterial Type III Effector	47.074	1758994	-	152,349
Investigating the Balance of Passive and Active Mechanics in Vascular Remodeling: An Integrated Experimental and Computational Approach	47.041	1760906	-	171,646
Bifunctional Catalysts for Selective Hydrogenation of Biomass Derivatives: Furfural Hydrogenation over Pt-Sn Supported on Titania	47.049	1764164	35,428	93,710
Activation of C-H Bonds at Multinuclear Metal Sites	47.049	1764192	-	143,081
Collaborative Research: Investigating the Fate of Carbon at an Ultraslow Spreading Center	47.050	1801036	-	147,934
Fundamentals of a New All Solid-state Metal-air Redox Battery Operated on Oxide-ion Chemistry	47.041	1801284	-	63,925
Collaborative Research: High Frequency Hydroclimate Extremes and Synoptic Climate Drivers in Western North America at the End of the Little Ice Age	47.050	1802018	-	41,401
Number Theory Meetings in the Southeast	47.049	1802259	-	4,848
GOALI: Collaborative Research: Electrochemical CO2 Separation and Capture through Design of Carbonate-Selective Catalysts and Ionomers	47.041	1803189	-	92,118
Collaborative Research: Understanding and Manipulating the Solvent Microenvironment for Selective, Catalytic Amination of Renewable Oxygenates	47.041	1805307	-	6,632
New Lanthanide-Containing Silicate Fluoride Scintillators for Radiation Detection	47.049	1806279	-	108,957

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<b>Research and Development Cluster, Continued</b>				
<b>National Science Foundation, continued</b>				
General Strategies Toward Mechanically Robust Biobased Polymers and Composites	47.049	1806792	-	111,284
Collaborative Research: How magnetic nanoparticles organize in extreme force gradients	47.049	1808426	-	100,468
Ultrawide bandgap AlGaN photodetectors for solar-blind UV detection and radiation monitoring	47.041	1810116	-	221,688
NSF-BSF: The Study of Nuclear Physics with Intermediate Energy Probes	47.049	1812382	-	364,771
SaTC: CORE: Small: Collaborative: Enabling Precise and Automated Insecurity Analysis of Middleware on Mobile Platforms	47.070	1815144	-	35,578
Collaborative Research: Computational Modeling of How Living Cells Utilize Liquid-Liquid Phase Separation to Organize Chemical Compartments	47.049	1815921	-	93,262
Study on Localized Exponential Time Differencing Methods for Evolution Partial Differential Equations	47.049	1818438	-	39,603
Stable and Convergent Computational Algorithms for Current Density Imaging	47.049	1818882	-	2,067
Collaborative Research: Capacity Building: Building a Cybersecurity Pipeline through Experiential Virtual Labs and Workforce Alliances	47.076	1822567	9,886	234,554
Collaborative Research: Socio-Linguistic Analysis of Cross-Cultural Encounters and their Outcomes	47.075	1823665	-	59,520
MRI: Acquisition of Time of Flight-Inductively Coupled Plasma-Mass Spectrometer to support multi-disciplinary research and training in South Carolina and Nationwide	47.041	1828055	-	218,999
MRI: Acquisition of a High Resolution, Quadrupole Mass Spectrometer to Enable Research and Education at the Interface of Chemistry and Biology	47.049	1828059	-	448,582
Collaborative Research: Deployment of Laser Induced Breakdown Spectroscopy System from ROV Jason	47.050	1829327	-	52,776
Next Generation Raman: Developing A Monolithic Spatial Heterodyne Spectrometer For Multi-Scale Chemical Mapping In Marine Environments	47.050	1829333	-	127,144
Collaborative Research: Assessing the relative importance of small vs large particles as sources of nutrition to abyssal communities	47.050	1829519	-	104,913
Cyberinfrastructure Center of Expertise	47.070	1829698	29,962	128,297
NRI: INT: COLLAB: SYNDROME: SYNegetic DROne Delivery Network in MEtropolis	47.041	1830512	-	53,185
Understanding and Designing Novel Anode Materials for Solid Oxide Fuel Cells	47.049	1832809	-	28,762
RII Track-4: Using the cryopreservation and microfluidic technologies to engineer bottlenose dolphin ovarian function in vitro for testing marine contaminants? female reproductive toxicity	47.083	1832910	-	183,395
NSF CCF-1551182 SHF:Small:Collaborative Research: Application-aware Energy Modeling and Power Management for Parallel and High Performance Computing (Project Transfer from Oakland University to University of South Carolina)	47.070	1833312	-	3,742
CAREER: Programming the Existing and Emerging Memory Systems for Extreme-scale Parallel Performance (Project Transfer from Oakland University to SC)	47.070	1833332	-	22,369
Formation of Environmentally Persistent Free Radicals on Engineered Nanomaterials During Thermal Treatment	47.041	1834638	-	42,278
26TH NSF EPSCoR NATIONAL CONFERENCE: Science and Partnerships Across Disciplinary Boundaries	47.083	1841103	-	402,623
Collaborative Research: Shark FEST - Fusing Eocene Shark Tracers: Paleoeocology, Ocean Circulation, and Antarctic Glaciation with Geochemistry and Climate Modeling	47.050	1842176	-	65,980
S&AS: FND: COLLAB: Planning Coordinated Event Observation for Structured Narratives	47.070	1849291	-	22,102
CRII: CPS: Algorithms and Methodologies for Real-Time Decision-Making of Mission-Critical Structures Experiencing High-Rate Dynamics	47.070	1850012	-	45,109
CRII: SaTC: A Malware-Inspired Approach to Mobile Application Repackaging and Tampering Detection	47.070	1850278	-	7,696
Deciphering Glacial-Interglacial Changes in Oxygen Minimum Zones Using Deep-Dwelling, Low-Oxygen Planktic Foraminifera	47.050	1851589	-	5,857
Regularity and singularity formations in swarming and related fluid models	47.049	1853001	-	19,207
Mathematical Modeling, Computational and Experimental Investigation of the Dynamics of Heterogeneity in Breast Cancer	47.049	1853365	-	62,758
Spring School Series: Models and Data	47.049	1855853	-	1,080
SaTC: CORE: Small: Collaborative: Enabling Precise and Automated Insecurity Analysis of Middleware on Mobile Platforms	47.070	1856380	-	33,753
Exploring and Understanding the Effect of Cation- $\pi$ Interactions in Asymmetric Catalysis	47.049	1856772	-	94,442
RAPID: Reconstruction of Hurricane Florence Flood Hydrograph (HF2H) for South Carolina's Critical Infrastructures Using Data Analytics Algorithms and In-situ Field Measurements	47.041	1901646	-	76,944
Collaborative: Multi-state Community College, University and Industry Collaboration to Prepare Learners for 21st Century IT Jobs	47.076	1902397	-	51,670
INFEWS:US-China: Collaborative Research: Investigating the role of wet wastes in the global circular economy: sustainable conversion to products using hydrothermal carbonization	47.041	1902419	-	60
Collaborative Research: Mechanochemistry of Metallocenes	47.049	1904373	-	72,212
Functional Nanotubes from Self-Assembled Bis-Urea Macrocycles	47.049	1904386	-	96,852
EAGER: Thermal Materials Discovery via Deep Learning based High-Throughput Computational Screening	47.049	1905775	-	46,708
LSAMP BD: University of South Carolina-Columbia, LS SCAMP	47.076	1906154	-	8,020
Collaborative Research: Organic and Inorganic Geochemical Investigation of Hydrologic Change in East Antarctica in the 4 Million Years Before Full Glaciation	47.050	1908399	-	14,625
Deconvolving the Southern South American Pleistocene–Holocene Dust Production Pathways	47.050	1910510	-	15,095
SHF:Small:A Unified Approach for Scheduling Computer Vision Dataflow Graphs	47.070	1910748	-	45,322
CNS Core: Small: Software-Hardware Reconfigurable Systems for Mobile Millimeter-Wave Networks	47.070	1910853	-	55,471
Effective Teaching Strategies Workshops and Sessions for the 2019 Earth Educators’ Rendezvous	47.050	1912471	2,202	41,153
Efficient Numerical Simulations of Oceanic Flows with Application to Coastal Modeling	47.049	1913073	-	12,276
Hybrid Multiscale Methods with Applications in Biomaterials and Bioengineering.	47.049	1913146	-	9,403
Understanding the Fundamental Mechanisms Governing Tensile Strength of High-Performance Small-Scale Carbon/Glass Fibers	47.041	1915948	-	77,278
MRI: Acquisition of the NanoFrazor – a unique AFM-based nanolithography tool to support multidisciplinary research and promote nanoscience in South Carolina and beyond	47.049	1920117	-	526,912
Collaborative Research: Decision Making on the U.S. District Courts: Building a Multi-User Database	47.075	1920991	-	47,400
Collaborative Research: Characterization of Subduction Channel Processes, Borehole Sampling at Active Serpentinite Mud Volcanoes on the Mariana Forearc	47.050	1921654	-	499
A New Class of Chemical Potential Driven Plug Flow Membrane Reactors for Combined Gas Separation and Direct Natural Gas Conversion	47.041	1924095	-	30,895
CC* Networking Infrastructure: Building a Science DMZ for Data-intensive Research and Computation at the University of South Carolina	47.070	1925484	-	385,945
Nitroux Oxide Cycling in the Arctic Ocean from Stable Isotopic and Concentration Data	47.050	1927755	-	65,136
Integrating Scholarships, Academic Assistance, Professional Development, and Wellness to Increase Undergraduate Retention in Engineering and Computing	47.076	1930492	-	12,972
Influence of Inquiry Lab Development and Teaching on TA and Faculty Beliefs About Teaching	47.076	1933395	-	352
NSF Student Travel Grant for 33rd Annual IFIP WG 11.3 Conference on Data and Applications Security and Privacy 2019 (DBSec’19)	47.070	1935698	-	9,429
Planning Grant: Engineering Research Center for Health Care Transformation (ERC-HCT)	47.041	1937107	-	12,809
RTML: Small: Collaborative: A programming model and platform architecture for real-time machine learning for sub-second temporal systems	47.070	1937535	-	26,119
Collaborative Research: Integrating Physics and Generative Machine Learning Models	47.070	1940099	-	10,410
Solid State and Material Chemistry Workshop: Hybrids and Interfaces	47.049	1940540	-	49,999
CAREER: Enabling Autonomy via Enhanced Situational Awareness for Underwater Robotics	47.070	1943205	-	31,576
Molecular dynamics with quantum nuclear effects: bridging the quantum and classical domains	47.049	1955768	-	4,092
Spokes: MEDIUM: MIDWEST: Collaborative: Community-Driven Data Engineering for Opioid and Substance Abuse in the Rural Midwest	47.070	1956009	-	740
NSF Convergence Accelerator: Symposium on Big Data & AI-Driven Disaster Management for Planning, Response, Recovery, and Resiliency	47.083	1956285	-	35,869
Counting Curves Using the Topology of Moduli Spaces	47.049	2001565	-	9,360

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<b>Research and Development Cluster, Continued</b>				
<b>National Science Foundation, continued</b>				
Investigating the Barriers to Retention and Tenure for Black and Hispanic Engineering Faculty at R1 Institutions	47.041	2001724	-	6,031
I-Corps Proposal - Magnetic Nanoremediation of Crude Oil	47.041	2002629	-	42,512
RII Track 1: Materials Assembly and Design Excellence in South Carolina: MADE in SC	47.083	OIA-1655740	-	13,168
IGERT: Functional Nanomaterials for Sustainable Energy Solutions	47.076	DGE-1250052	-	102,742
NSF Graduate Research Fellowship	47.076	DGE-1450810	-	98,754
CAREER: Metal-Semiconductor Hybrid Core-Shell Heteronanostructures with Geometrically Tunable Optical Properties	47.049	DMR-1253231	-	2,508
Developing Master Teachers through the South Carolina Science and Mathematics Teacher Leaders (SC-SMTL) program	47.076	DUE-1439842	-	416,248
Collaborative Research: I/UCRC on Grid-Connected Advanced Power Electronic Systems (GRAPES), Phase II	47.041	IIP-1439689	-	14,059
Regulation of Floral Growth and Patterning in Arabidopsis Thaliana	47.074	IOS-1354452	35,837	173,247
RII Track 1: Materials Assembly and Design Excellence in South Carolina: MADE in SC	47.083	OIA-1655740	2,540,775	3,898,986
RII Track-2 FEC-Genome to fitness: An analysis of the stress response in Peromyscus	47.083	OIA-1736150	226,970	940,527
<b>Passed through programs from:</b>				
<b>Benedict College</b>				
Targeted Infusion Project: Infusion of Active and Problem-Based Learning for Teaching and Research in the Context of Transportation Disruptive Technologies	47.076	20-88854	-	10,266
<b>C&amp;B Technology</b>				
Novel semiconductor Warpage Measurement Device	47.041	15540FD75	-	3,515
<b>Clemson University</b>				
Subcontract for Clemson NSF Proposal: Novel Graphene-based Label-free Biosensor Arrays for Smart Health and Drug Discovery	47.041	1860-206-2011320	-	20,173
Radioluminescent Particles for Optical Mission in Optogenetics	47.083	1876-206-2011576	-	29,566
NSF INCLUDES Statewide Consortium Supporting Underrepresented Populations in Precalculus by Organizational Redesign toward Engineering Diversity (SC:SUPPORTED)	47.041	1987-206-2012226	-	23,762
<b>Dartmouth College</b>				
RII Track-2 FEC: Computational Methods and Autonomous Robotics Systems for Modeling and Predicting Harmful Cyanobacterial Blooms	47.083	R1303	-	151,016
<b>Medical University of South Carolina</b>				
RII Track-2 FEC: Bridging Cognitive Science and Neuroscience Using Innovative Imaging Technologies	47.083	MUSC16-073-8B357	-	(954)
<b>Morgan State University</b>				
Doping cubic boron nitride, an extreme material for power electronics and radiation detection	47.041	USC-183-02	-	53,393
<b>NC State University</b>				
STEM Teens: Examining the Role of Youth Educators in Informal Science Learning Sites Evaluation Plan	47.076	2018-2113-01	-	25,097
<b>SC State University</b>				
SCAMP Phase III: Enhancing Opportunities to Transition Students into Successful STEM Pathways	47.076	17-581054-SCAMP-USC-SC	-	1,640
SCAMP Phase III: Enhancing Opportunities to Transition Students into Successful STEM Pathways	47.076	18-581065-SCAMP-USC-SC	-	12,799
<b>The Ohio State University</b>				
HazardSEES: Social and Physical Sensing Enabled Decision Support for Disaster Management and Response	47.050	60073475	-	68,804
<b>University of Georgia</b>				
LTER: Georgia Coastal Ecosystems IV	47.050	SUB00001914	-	4,368
Coupled Long-Term Impacts of Uneven Racial Development, Exurban Growth, and Sea-Level Rise on Land-Use in Coastal Georgia	47.075	SUB00002229	-	286
<b>University of Kansas Center for Research</b>				
RII Track-2 FEC: Catalysis for Renewables: Applications, Fundamentals and Technologies (CRAFT)	47.079	FY2016-032	-	10,866
<b>University of Puerto Rico</b>				
RII Track-2 FEC: Center for a Sustainable Water, Energy, and Food Nexus (SusWEF)	47.083	2016-2017-003	-	376,574
<b>Villanova University</b>				
Collaborative Research: RUI: The Influence of Mangrove Invasion and Rising Temperatures on Belowground Processes in Coastal Ecosystems	47.074	525874	-	32,287
<b>University of Georgia Research Foundation</b>				
A Resource for Functional Genomics to Support Soybean Genetics and Breeding	47.074	RC371-288/S000906	-	32,363
<b>Marine Biological Labratory</b>				
LTER-Plum Island Ecosystems: Dynamics of Coastal Ecosystems in a Region of Rapid Climate Change, Sea-level Rise, and Human Impacts	47.050	52684	-	53,489
<b>University Corporation for Atmospheric Research</b>				
Teresa Norman- NCAR Fellowship: Understanding the physical and cultural impacts of climate change and adaptation science and policy on non-traditional forms of housing and land tenure among African American coastal communities in the US South	47.050	SUBAWD001569	-	52,049
<b>Total National Science Foundation</b>			2,961,976	18,749,753
<b>Small Business Administration</b>				
University of South Carolina - FY 2019 FAST	59.058	SBAHQ19G0013	-	84,246
<b>Total Small Business Administration</b>			-	84,246
<b>US Department of Veterans Affairs</b>				
Research statistical, data management, grant proposal and educational support for the Columbia VA Health Care System	64.RD	36C24720P0271/544C05109	-	13,114
Rodent Procurement and Husbandry for Dorn VA Medical Center	64.RD	36C24E20D0009	-	10,937
Provision of VMO Services to the Dorn VA Medical Center (2019)	64.RD	544D07000/36C-247-19-P-0181	-	12,146
Contract for Animal Husbandry Services for Dorn VA Medical Center	64.RD	544-D80010	-	23,152
IACUC Program Support - Administrative Services	64.RD	544D87012/VA-247-17-P-2248	-	20,217
Provision of VMO Services to the Dorn VA Medical Center (2019)	64.RD	544D97001/36C-247-19-P-0181	-	11,522
<b>Total Department of Veterans Affairs</b>			-	91,088
<b>US Environmental Protection Agency</b>				
Green plasma technology for siloxane removal and landfill gas upgrade	66.516	83996601	-	4,880
Analysis of Chemicals in Water	66.RD	EP-16-D-000132	-	13,223
Water Analysis and Reporting for Toxicological Research	66.RD	EP-17-D-000045	-	(11,109)
<b>Total US Environmental Protection Agency</b>			-	6,994
<b>US Nuclear Regulatory Commission</b>				
Experimental Testing and Evaluation of Boral Performance in Spent Fuel Storage and Transportation	77.RD	31310018C0003	-	215,785
University of South Carolina Excellence in Nuclear Engineering Fellowship Program	77.008	NRC-HQ-84-15-G-0022	-	150,841
<b>Total US Nuclear Regulatory Commission</b>			-	366,626
<b>US Department of Energy</b>				
Development of Next-Generation Heat Exchangers for Hybrid Power Generation	81.135	DE-AR0000958	-	42,491
A Multifunctional Isostructural Bilayer Oxygen Evolution Electrode for Durable Intermediate-Temperature Electrochemical Water Splitting	81.087	DE-EE0008842	-	110,284
South Carolina Institute of Archaeology and Anthropology/Savannah River Archaeological Research Program Cooperative Agreement: United States Department of Energy for FY2019 - FY2023	81.214	DE-EM0005182	-	816,778
Developing Accelerated Test Protocols and Tuning Microstructures of the Common Materials to Improve Robustness, Reliability, and Endurance of SOFC Cells	81.089	DE-FE0026097	271,345	285,637
Development of Lost Cost, Robust and Durable Cathode Materials to Support SOFC Commercialization	81.089	DE-FE0031176	-	40,910

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**University of South Carolina**  
***Schedule of Expenditures of Federal Awards***  
***For the year ended June 30, 2020***

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Research and Development Cluster, Continued</b>				
<b>US Department of Energy, continued</b>				
Cost-effective, Thin-film SOFCs for Reliable Power Generation	81.089	DE-FE0031670	42,746	282,051
A Transformational Natural Gas Fueled Dynamic SOFC for Data Center In-Rack Power	81.089	DE-FE0031671	-	270,139
Methane Partial Oxidation over Multifunctional 2-D Materials	81.089	DE-FE0031878	-	14,913
Experimental Determination and Modeling of Used Fuel Drying by Vacuum and Gas Circulation for Dry Cask Storage	81.121	DE-NE0008273	(1,769)	(1,700)
Demand-Driven Cycamore Archetypes	81.121	DE-NE0008567	77,456	152,497
Phase Equilibria and Thermochemistry of Advanced Fuels: Modeling Burnup Behavior	81.121	DE-NE0008570	-	35,480
Multipurpose, Radiation- and Temperature-Resistant Semiconductor Radiation Detectors for Advanced Process Monitoring and Nuclear Safeguards	81.121	DE-NE0008662	11,965	244,658
Novel NDE Sensors, Waveforms, Models, and Algorithms for Cable Health Monitoring	81.121	DE-NE0008663	-	155,335
Development of Multi-Axial Failure Criteria for Nuclear Grade SiCf-SiCm Composites	81.121	DE-NE0008792	68,463	283,648
Remote Laser Based Nondestructive Evaluation for Post Irradiation Examination of ATF Cladding	81.121	DE-NE0008894	-	67,041
Neutrino and Flavor Physics at the Intensity Frontier (Neutrino Task)	81.049	DE-SC0010073	-	200,544
Research in Neutrinoless Double-Beta Decay	81.049	DESC0012612	-	121,637
Grid Generation, Coupling Strategies, and Spatially-dependent Time Stepping for Ocean tidal/Estuary Systems and other ESM Components	81.049	DE-SC0016540	-	50,362
Center for Hierarchical Waste Form Materials (CHWM)	81.049	DESC0016574	676,079	1,481,669
Search for Neutrinoless Double Beta Decay	81.049	DE-SC0018060	-	1,418
Using Crystallization to Control Filler Dispersion and Vice Versa in Polymer Nanocomposites	81.049	DE-SC0018135	-	98,961
Directed Synthesis of New Uranium Containing Materials: The Use of Functional Building Blocks as Synthetic Tools Coupled with Targeted Crystal Growth Methods to Create New Complex U(VI), U(IV) and U(III) Containing Materials	81.049	DE-SC0018739	-	210,554
Multimetallic Metal-Organic Frameworks as Tunable, Multifunctional Catalysts for Gas Phase Hydroformylation and Hydrogenation Reactions.	81.049	DE-SC0019360	29,321	200,167
Fundamental symmetries and nucleon interactions	81.049	DE-SC0019647	-	87,120
Efficient and Scalable Time-Stepping Algorithms and Reduced-Order Modeling for Ocean System Simulation	81.049	DE-SC0020270	-	45,891
Data-science enabled investigation of the mechanisms for multiscale ion transport in functional electrolytes and for the radical generation in crystalline assemblies	81.049	DE-SC0020272	-	69,560
Fundamental Neutron Physics: Theory and Analysis	81.049	DE-SC0020687	-	17,708
AOI 2: Modularization of Ceramic Hollow Fiber Membrane Technology for Air Separation	81.089	ED-FE0031473	-	215,144
<b>Passed through programs from:</b>				
<b>AccuStrata, Inc.</b>				
Combinatorial Discovery of Heterogeneous Catalysts Utilizing Emission Spectroscopy and Advanced Machine Learning	81.049	15510FD17	-	(147)
<b>Acumentrics</b>				
Performance and Reliability Advancements in a Durable Low Temperature Tubular SOFC	81.089	ATRXUSC101016	-	(2,358)
<b>Advent Innovations</b>				
PVDF-Film for Robust Online Assessment of Composite Tanks (PROACT)	81.049	U00026745	-	69,601
<b>Alliance for Sustainable Energy, LLC</b>				
A 1D Mathematical Model for Lithium Polysulfide (PS) Management in Lithium Sulfur Batteries	81.RD	SUB-2019-10013	-	35,360
Modeling and Simulation of Automated Mobility Districts	81.RD	XGZ-9-92299-01	-	9,437
<b>American Institute of Chemical Engineers</b>				
Roadmap Development for RAPID. Intensified Process Fundamentals	81.087	DE-EE0007888	-	44,899
<b>Ames Laboratory</b>				
Statement of Work for Institute for Cooperative Catalysis in Upcycling of Polymers (ICOUP)	81.RD	SC-19-490	-	52,189
<b>Aquaneers, Inc.</b>				
Catalytic Plasmonic Ribbon	81.049	DE-SC0019657	-	18,750
<b>Arizona State University</b>				
High Temperature Ceramic-Carbonate Dual-Phase Membrane Reactor for Pre-Combustion Carbon Dioxide Capture	81.089	ASUB00000221 JP	-	148,667
<b>Battelle Energy Alliance, LLC</b>				
Aluminum-Clad Spent Nuclear Fuel Management	81.RD	207046	-	272,722
Catalysts Development for Water Splitting Reactions using Solid Oxide Electrolysis Cells (SOECs)	81.RD	216845	-	20,594
<b>Battelle Memorial Institute, Pacific NW</b>				
Nepheline Thermodynamic Model Creation and Validation	81.RD	301919	-	(2,293)
<b>Chemtronergy, LLC</b>				
Cost-effective, Intermediate-temperature Fuel Cell for Carbon-free Power Generation	81.135	2020-03	-	13,678
<b>Clemson University</b>				
Radionuclide Waste Disposal: Development of Multi-scale Experimental and Modeling Capabilities	81.049	1750-219-2020199	-	88,010
Rapid Institute: Advanced Catalysts for Low Temperature Heavy Crude Upgrading	81.RD	2115-235-2013191	-	88,813
<b>Compact Membrane Systems, Inc.</b>				
DOE Phase II: Integrated Membrane Reactor for Enhancing Thermal & Chemical Reactors	81.049	U00027029	-	28,163
Enhanced Oxidative Dehydrogenation of Ethane with Facilitated Transport Membranes for Low Cost Production of Ethylene	81.049	U00027093	-	30,603
<b>General Atomics</b>				
Advanced Characterization and Modeling of Larger Length Accident Tolerant SiC Composite Cladding	81.121	4500084479	-	23,484
<b>Georgia Institute of Technology</b>				
High-Performance Aem Lte With Advanced Membranes, Ionomers And Pgm-Free Electrodes	81.087	AWD-000605-G1/PO#_5070026	-	6,447
<b>Greenway Energy, LLC</b>				
Subcontract Response to DE-FOA-0001647: High temperature reactor catalyst material development for low cost and efficient solar driven sulfur-based processes	81.087	15510FC99	-	(97,500)
<b>Lawrence Livermore National Laboratory</b>				
Monolith Spatial Heterodyne Raman Spectrometer (mSHRS) Studies	81.RD	B635176	-	17,695
<b>Los Alamos National Laboratory</b>				
Predictive Modeling, Inverse Problems and Uncertainty Quantification with Application to Emergency Response	81.RD	Subcontract 474388	-	62,146
<b>Michigan State University</b>				
Degradation and Performance Studies of ALD Stabilized Cathodes	81.089	RC107812-USC	-	31,051
<b>Missouri State University</b>				
Multimodal Approach to Modeling Creep Deformation in Ni-Base Superalloys	81.089	18018-3	-	29,347
<b>NC State University</b>				
Microstructure Experiments-Enabled MARMOT Simulations of SiC/SiC-based Accident Tolerant Nuclear Fuel System	81.121	2016-2122-02	-	48,764
<b>Pacific Northwest National Laboratory</b>				
University of South Carolina subcontract in support of Thrust 1, Project 1 associated with LDRD award: 73950 SPP, Discovering Thermomechanical Pathways.	81.RD	462396	-	72,583
<b>RAPID Manufacturing Institute</b>				
MFES for High throughput Modular Process Intensified Gas Separation and Ion Exchange	81.087	DE-EE0007888-08.4	-	140,999
Modular Catalytic Partial Oxidation Reactors Using Microstructured Catalyst Structures With Combined High Thermal Conductivity And Flame Extinction Capacity	81.087	DE-EE0007888-085.9	-	28,196
<b>Reaction Engineering International</b>				
Developing Detailed Chemical Kinetics Mechanism for Supercritical CO2 Combustion	81.049	REI 8270-2	-	25,000
<b>Rensselaer Polytechnic Institute</b>				
A Novel Hollow Fiber Membrane Reactor for High Purity H2 Generation from Thermal Catalytic NH3 Decomposition	81.135	A121888	-	68,668
Deposition Tailor-made Size-sieving Sorbents for Post-combustion CO2 Capture	81.089	A20-0008-S001	-	129,979

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**University of South Carolina**  
***Schedule of Expenditures of Federal Awards***  
***For the year ended June 30, 2020***

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Research and Development Cluster, Continued</b>				
<b>US Department of Energy, continued</b>				
<b>Passed through programs from, continued:</b>				
<b>Savannah River Laboratory</b>				
Modification and Characterization of Gold Nanostructures	81.RD	0000472434	-	7,623
Extremely Durable Graphene Oxide Nanoribbon Reinforced Concrete	81.RD	G-SOW-A-00033	-	39,731
Radiofrequency of Hydride Materials	81.RD	G-SOW-A-01877	-	6,655
Support of the Modular Chemical Process Intensification Manufacturing Institute	81.RD	G-SOW-A-01937 (CEB00011)	-	5,677
Flow Loop and Getter Bed Simulation	81.RD	G-SOW-A-02066	-	27,934
Development of ALGE code	81.RD	G-SOW-A-02095	-	19,877
Spatial Heterodyne Raman Spectroscopy Instrumentation Development for Saltstone Headspace Analysis	81.RD	G-SOW-A-02097	-	26,429
Spatial Heterodyne Raman Spectroscopy Data Analysis	81.RD	G-SOW-A-02107	-	24,775
Metal-Organics-Framework Glasses as Rad Contaminant Sequesters and Nuclear Waste Forms	81.RD	G-SOW-A-2108	-	21,835
Oxyhydroxides Formation Studies and Removal Practices (Pre-req 2018-0000027) G-SOW-A-02125	81.RD	G-SOW-A-02125	-	61,657
Data Analysis, Computer Vision, and Machine Learning G-SOW-A-02128	81.RD	G-SOW-A-02128	-	55,135
Development of the Hybrid Sulfur Cycle-Sulfur Dioxide Depolarized Electrolyzer (Pre-Req 2018-0000059)	81.RD	G-SOW-A-02129	-	32,646
Modeling of Electrolytic Dissolution	81.RD	G-SOW-A-02163	-	115,507
A Unified Machine Learning Framework for Corrosion Surveillance and Quality Control in Additive Manufacturing	81.RD	G-SOW-A-02194	-	41,956
Component Development for Alkaline URFCs (Pre-Req 2019-000227)	81.RD	G-SOW-A-02197	-	31,532
<b>SC Research Foundation</b>				
DIRC-based PID for the EIC Central Detector	81.RD	218624	-	16,104
Science and Technology Enrichment Program (STEP)	81.RD	0000360508	-	95,735
Synergistic Membranes & Reactants for a Transformational Flow-Battery System	81.135	1231120	-	46
DOE Nuclear Engineering Scholarship and Fellowship Program at USC	81.121	DE-NE0000095	-	43,298
Theoretical Investigation of Heterogeneous Catalysis at the Solid Liquid Interface for the Conversion of Lignocellulosic Biomass Model Molecules	81.049	DE-SC0007167	-	238,599
Fundamental Neutron Physics: Theory and Analysis	81.049	DE-SC0015882	-	29,855
<b>SC Universities Research and Education Foundation</b>				
Management of Nuclear Nonproliferation International Safeguards Graduate Fellowship Program	81.RD	B139029	-	97,669
Earthquake Monitoring in South Carolina	81.RD	B139035	-	131,738
Savannah River Environmental Sciences Field Station	81.RD	B139037	16,813	16,813
Savannah River Environmental Sciences Field Station 2019-2020	81.RD	B139038	164,464	343,712
Management of Nuclear Nonproliferation International Safeguards Graduate Fellowship Program (NNIS)	81.RD	B139039	-	322,688
Savannah River Environmental Sciences and Engineering Field Station 2020-21	81.RD	B139040	-	90,677
Nuclear Energy Advisory Committee (NEAC)	81.RD	DOE001	-	(1,436)
Nuclear Energy Advisory Committee (NEAC)	81.RD	GS-10F-053AA PMIS III	-	12,810
Rickover Fellowship Program in Nuclear Engineering	81.121	NRLF003	-	515,174
Rickover Fellowship Program in Nuclear Engineering	81.121	NRLF004	-	323,161
Nuclear Energy Advisory Committee (NEAC)	81.RD	PMISIII	-	127,025
<b>SRS Community Reuse Organization</b>				
USC Aiken's Workforce Opportunities in Regional Careers (WORC)	81.104	DE-EM0004214	-	221,741
<b>The Pennsylvania State University</b>				
Novel Anion Exchange Membranes for High-Performance Fuel Cell Devices	81.087	5972-USC-DOE-8433	-	94,634
<b>The University of Nebraska-Lincoln</b>				
Online Monitoring System for Concrete Structures Affected by Alkali-Silica Reaction (ASR)	81.121	25-1120-0014-002	-	9,005
<b>University of Central Florida</b>				
STEP/FEEDER: Strategic Expansion to Achieve GEARED Goals	81.087	16226104-08	-	671
<b>University of Connecticut</b>				
in situ Measurement and Validation of Uranium Molten Salt Properties at Operationally Relevant Temperatures	81.121	5649590/317162	-	43,876
<b>Utah State University</b>				
Separate Effects Tests and Modeling of Fuel Fracture and Cladding Rupture	81.121	200658-343	-	42,778
<b>UT-Battelle, LLC</b>				
Database Development and Modeling of Fuel-Fission Products in High Burnup Systems	81.RD	4000137480	-	29,312
Framework for a Molten Salt Reactor Thermochemical Database, Formalisms, and Tabulated Systems of Interest	81.RD	4000160938	-	96,209
Cellular Automata Simulation Models for Non-equilibrium Solidification for The Metal Additive Manufacturing (AM) Process	81.RD	4000171122	-	50,069
<b>Vanderbilt University</b>				
High-dimensional Data-driven Energy Optimization for Multi-Modal Transit Agencies (HD-EMMA)	81.086	UNIV60730	-	50,696
<b>Westinghouse Electric Company, LLC</b>				
Failure Mechanisms of ATF under PCMI and PCCI with U3Si2 Fuel and SiC Composite Cladding	81.121	CTR-PO-2019-03	-	173,710
<b>Total US Department of Engery</b>			<b>1,356,883</b>	<b>10,839,782</b>
<b>US Department of Education</b>				
Project IMPACT: Improving the Mental Health of Students with Emotional and Behavioral Disorders by Preparing School Counselors and Special Education Teachers to Collaborate on an Interdisciplinary Team	84.325	H325K190074	-	36,230
Application For Grants Under The Centers For International Business (Cibe) Program Funding Opportunity Number: Ed-Grants-060314-001	84.220	P220A140021-14A	-	17,239
Application For Grants Under The Centers For International Business (Cibe) Program Funding Opportunity Number: Ed-Grants-060314-001	84.220	P220A180009	-	196,628
A Psychometric Investigation of Universal Screening for Social-Emotional Development in Preschool Using Parent and Teacher Informants	84.305	R305A150152	47,439	281,572
Morphological Awareness Test for Reading and Spelling (MATRS)	84.305	R305A170065	14,190	425,243
Investigating Psychometric Properties of BASC-3 Flex Progress Monitoring Forms with Preschool Students	84.324	R324A190066	-	162,494
<b>Total US Department of Education</b>			<b>61,629</b>	<b>1,119,406</b>
<b>National Archives and Records Administration</b>				
Papers of the Revolutionary Era Pinckney Statesmen, Phase 3	89.003	PE-100284-18	-	29,252
The Revolutionary Era Pinckney Statesmen of South Carolina: A Digital Documentary Edition	89.003	PE-102746-19	-	87,575
<b>Total National Archives and Records Administration</b>			-	<b>116,827</b>
<b>US Department of Health and Human Services</b>				
Colorectal Cancer Screening Program in South Carolina	93.800	15DP006137	-	(85)
Early Indicators of Autism Risk in Down Syndrome	93.865	1F32HD097877-01	-	31,996
The Developing Real Incentives and Volition for Exercise (DRIVE) Project	93.837	1F32HL138928-01A1	-	(3,423)
Targeting macrophages to reduce colorectal cancer: Impact of metabolic reprogramming	93.393	1F99CA234920-01	-	3,470
8-Prenylinaringenin: A Natural Therapy for Estrogen Deficiency	93.213	1K01AT010348-01A1	-	55,578
Addiction Treatment in Medicaid Health Homes	93.279	1K01DA041628-01	-	144,964
Sensorimotor Processing of Auditory Feedback in Aphasia	93.173	1K01DC015831-01A1	-	157,581
Development of a High-Throughput Platform for Screening Ovotoxic Chemicals	93.113	1K01ES030014-01	-	54,111
Improving the HIV Care Continuum for Youth in the Deep South through Mobile Health Technology	93.242	1K01MH118073-01A1	-	85,644
A Solid-State Nanopore Biosensor for Rapid Detection of Mycobacterium tuberculosis Antigens in Pediatric Blood Samples	93.855	1K22AI136686-01A1	-	103,232

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University of South Carolina

Schedule of Expenditures of Federal Awards

For the year ended June 30, 2020

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Research and Development Cluster, Continued</b>				
<b>US Department of Health and Human Services, continued</b>				
A Patient-Centered Asthma Management Communication Intervention for Rural Latino Children	93.838	1K23HL133596-01A1	-	128,140
Developing a Lifestyle Intervention to Reduce Body Weight for Obese African American Men Living in the Rural South	93.307	1K23MD013899-01	-	152,609
Physiological Measurement of Attention as a Neurobehavioral Marker of Social Functioning and Emerging ASD Symptomology in Infancy	93.242	1K23MH120476-01	-	129,508
Interactions of Climate Change on Oceans and Human Health (CAPICCOHH): Assessment of Effects on Ocean Health Related Illness and Disease and Development of Prevention Strategies to Better Protect Public Health - ADMIN CORE	93.113	1P01ES028942-01	119,221	154,613
Research Center for Child Well-Being--COBRE (Admin Core)	93.859	1P20GM130420-01A1	-	393,908
Carolina Center on Alzheimer's Disease and Minority Research (CCADMR) - Admin Core	93.866	1P30AG059294-01	48,549	74,915
Brain Targeted Nanoparticle for Alzheimer's Disease Therapy	93.866	1R01AG054839-01A1	-	506,524
Role of Cyclic Nucleotide Signaling in Age-related Decline of Social Memories	93.866	1R01AG061200-01	-	431,008
SCH: INT: Inferring at Home Gait Parameters of Older Adults using Floor Vibrations	93.866	1R01AG067395-01	33,014	103,197
Metallopolymer and Antibiotic Bioconjugates against Multidrug Resistant Bacteria	93.855	1R01AI120987-01	-	76,219
AhR Ligands in Epigenetic Dysregulation of T Cells	93.855	1R01AI123947-01A1	-	300,368
Big Data Analytics of HIV Treatment Gaps in South Carolina: Identification and Prediction	93.855	1R01AI127203-01A1	-	768,747
Epigenetic Mechanisms of T Cell Dysregulation in PTSD	93.855	1R01AI129788-01	74,817	269,667
Control of Facial Amphiphilicity to Tune Macromolecular Interactions with Bacteria	93.855	1R01AI149810-01A1	-	92,023
Peers Promoting Exercise Adoption and Maintenance among Cancer Survivors	93.394	1R01CA183849-01A1	64,581	374,997
Evaluation of Cigarette Package Inserts for Enhanced Communication with Smokers	93.393	1R01CA215466-01A1	220,369	406,662
Targeting the p62 Signosome in Leukemia.	93.393	1R01CA218076-01	-	368,850
Emodin as a Chemopreventive Agent for Breast Cancer	93.393	1R01CA218578-01A1	-	465,525
Inhibin function in tumor angiogenesis	93.396	1R01CA219495-01A1	12,981	95,130
Role of Circadian Factors in Inflammation and Colorectal Adenoma Risk	93.393	1R01CA231321-01A1	-	133,519
Harnessing the Power of p53 with Panaxynol from American Ginseng to Suppress Colitis and Prevent Colon Cancer	93.393	1R01CA246809-01	-	233,288
Maximizing Speech Recognition Under Adverse Listening Conditions	93.173	1R01DC015465-01	129,870	327,577
Word Learning in Reading and Language Impairment Subgroups	93.173	1R01DC017156-01	120,071	624,026
Early Language and Literacy Acquisition in Children with Hearing Loss	93.173	1R01DC017173-01	47,671	740,819
What's UP (Undermining Prevention) with Summer? Etiology of Accelerated Weight Gain during Summer vs. School Year	93.847	1R01DK116665-01A1	-	687,868
Reducing Health Disparities in Childhood Obesity Using Financial Incentives in Low-income Households	93.847	1R01DK120490-01A1	-	250,078
Epigenetic mechanisms in Transgenerational Effects of an Environmental Pollutant	93.113	1R01ES030144-01A1	-	252,377
Divergence of Carboxylate-Bridged Diiron Enzymes for Natural Product Biosynthesis	93.859	1R01GM135315-01	-	125,223
Promoting Healthy Weight in Pregnancy and Postpartum among Overweight/Obese Women	93.865	1R01HD078407-01A1	31,269	373,353
Turn Up the HEAT - Healthy Eating and Activity Time in Summer Day Camps	93.865	1R01HD079372	1,576	30,107
Policy to Practice: Statewide Rollout of YMCA Childhood Obesity Standards	93.865	1R01HD079422-01	-	70,884
Physical Activity, Sedentary Behavior and Weight Status in Early Childhood	93.865	1R01HD091483-01A1	20,040	809,300
Linking Altered Cortical Sensorimotor Integration with Movement Impairments in Back Pain	93.865	1R01HD095959-01	-	336,719
Therapeutic Targeting of Tissue Inhibitor-4 in Hypertrophy and Failure	93.837	1R01HL130972-01A1	41,819	291,226
Molecular Basis of Exercise-induced Changes in HDL Function	93.837	1R01HL146462-01	144,343	420,236
A Meta-Epidemiological Assessment of the Role of Pilot Studies in the Design of Well-Powered Trials – the Pilot Project	93.837	1R01HL149141-01	68,043	303,653
Validating Triage for Chemical Mass Casualty Incidents - A First Step	93.879	1R01LM011648-01A1	13,231	168,232
Compartmentalization of Cyclic Nucleotide Signaling in the Ventral Hippocampus	93.242	1R01MH101130-01A1	-	(14,324)
Muscarinic Modulation of the Basolateral Amygdala	93.242	1R01MH104638-01A1	-	383,350
Progression of Attentional and Executive Function Deficits in HAND	93.242	1R01MH106392-01A1	-	448,215
An in Vivo Voltammetric Serotonin Biomarker for Antidepressant Efficacy	93.242	1R01MH106563-01A1	81,334	423,483
Emergence, Stability and Predictors of Anxiety in Fragile X Syndrome	93.242	1R01MH107573-01A1	68,731	497,091
HIV-Related Stigma and HIV Clinical Outcomes	93.242	1R01MH112376-01	-	31,127
Estrogen Mediated Mechanisms of Stress Susceptibility	93.242	1R01MH113892-01A1	-	358,216
Connect through P.L.A.Y.: A staff-based intervention targeting social mechanisms for promoting physical activity within after school programs for underserved middle school youth	93.361	1R01NR017619-01	-	579,652
Central & Peripheral Body Temperature in VLBW Preterm Infants During the Neonatal Period: Relationship to Neonatal Infection and Necrotizing Enterocolitis	93.361	1R01NR017872-01A1	383,008	638,784
Antagonistic Roles of HuD and KSRP for mRNA stability in Neuronal Growth	93.853	1R01NS089633-01A1	293,737	393,838
Neurobiological Mechanisms of Apathy in HAND	93.853	1R01NS100624-01A1	-	242,215
Role of proteoglycan-mediated trans-axonal signaling in pre-target topographic sorting	93.853	1R01NS109197-01	-	297,469
Lamin A and the Fidelity of DNA Double-Strand Break Repair	93.866	1R03AG064525-01A1	-	36,924
Flexible Biomarker Evaluation Through a Cost-Effective Data Collection Mechanism	93.855	1R03AI135614-01A1	-	65,814
TRB3: A Novel Mediator for Denervation-induced Muscle Atrophy	93.846	1R03AR066825-01A1	-	1,333
Novel Chemical Biology Probes based on Selective Inhibitors of the Polo-Box Domain of PLK1	93.395	1R03CA212889-01A1	-	10,823
Functional Identification of New Mechanisms of Neurotoxicity Induced by HIV and Drugs of Abuse	93.279	1R03DA043428-01A1	-	(7,182)
Early Language and Literacy Acquisition in Children with Hearing Loss	93.173	1R03DC014535-01	-	(726)
Identifying Genetic Loci Associated with Neurocristopathies using the Deer Mouse, Peromyscus maniculatus	93.121	1R03DE028371-01A1	-	69,031
Bioinspired Matrices to Enhance Cardiac Differentiation and Maturation of Embryoid Bodies	93.286	1R03EB026813-01	-	48,792
Estimating population level infertility and fertility treatment rates	93.865	1R03HD097287-01	23,720	86,769
Racial/Ethnic Disparities in Care Practices, Outcomes, and Hospital Transfer Among Infants Born at 22-29 Weeks Gestation	93.865	1R03HD097305-01	-	43,095
Aging Language Trajectories in Premutation Carrier Mothers	93.865	1R03HD098291-01	-	53,220
Effect of the patient-centered medical home on geographic and racial disparities in health care access	93.226	1R03HS026263-01A1	-	34,634
Validating Neuroelectric Biomarkers of Concussion Recovery	93.853	1R03NS106547-01	-	55,787
RAD51-dependent homologous recombination and thiopurine treatments for cancer	93.395	1R15CA223956-01A1	-	100,803
Mechanisms of Increased Fall Risk among Older Adults with Depression: A Causal Mediation Analysis	93.866	1R21AG064310-01	-	101,021
Mechanisms of the Effect of HIV Disclosure on Clinical Outcomes: A Longitudinal Study	93.855	1R21AI122919-01A1	-	66,223
Exploring the Role of Ovary MicroRNAs in Mosquito Reproduction	93.855	1R21AI139603-01	12,267	134,778
Mechanism of MHC Heterozygote Advantage During Anti-Commensal Germinal Center B Cell Selection	93.855	1R21AI142409-01A1	-	223,089
Reducing Sedentary Time Using an Innovative mHealth Intervention Among Total Knee Replacement Patients	93.846	1R21AR074780-01A1	-	4,863
ParkIndex: A tool for advancing parks and public health research and practice	93.394	1R21CA202693-01A1	3,224	16,533
Impact of Macrophage PCSK9 on Breast Cancer	93.396	1R21CA216230-01	-	66,312
A chemopreventive strategy based on edible microRNAs produced in plants	93.393	1R21CA223353-01	-	132,955
Knock-in Mouse Model of Dopamine Transporter-Tat Interaction Underlying NeuroAIDS	93.279	1R21DA041932-01	-	58,081
Impact of Dead Box RNA Helicase 3 Signaling on HIV-1 Tat- and Cocaine-Induced Neurotoxicity	93.279	1R21DA047936-01	-	201,831
Neurobehavioral Determinants of Social Communication and Language Impairments in At-Risk Infants	93.173	1R21DC017252-01A1	-	21,445
Defining the Language Phenotype of the FMR1 Premutation	93.173	1R21DC017804-01	-	59,359
Neurodevelopmental Outcomes Associated with Care Setting in Children Orphaned by AIDS	93.865	1R21HD087108-01A1	-	(155)
Interventions to Promote Healthy Lifestyle and Academic Performance in Children during the Summer Months	93.865	1R21HD090647-01A1	9,824	87,678
Product Testing Movement Integration Products: Identifying What Works and What Doesn't	93.865	1R21HD091394-01A1	-	151,973
Voltammetric Determination of Neuronal Serotonin and Histamine Co-Regulation	93.242	1R21MH109959-01A1	13,478	16,875
Intersecting Stigma Against MSM in Clinical Settings in Zambia	93.989	1R21TW011064-01A1	51,976	147,076
Mechanisms of Iron and Thiol Redox Regulation in Yeast	93.859	1R35GM118164-01	-	399,881
Microglial Modulation of Nicotine Dependence	93.279	1R36DA049087-01A1	-	2,822
Functional Implications of RyR2 Mutations in Human Cardiomyocytes	93.837	1R56HL147054-01	64,360	189,810
Anaplerotic Therapy for Mitochondrial Complex I Deficiency	93.853	1R56NS116174-01	-	14,215
CAM Center for Epigenetic Regulation of Inflammation (Admin. Core)	93.213	2P01AT003961-06A1	-	852,106
COBRE - Center for Dietary Supplements and Inflammation (Admin Core Year 4)	93.859	2P20GM103641-06A1	-	(2,475)

The accompanying notes are an integral part of this schedule

**University of South Carolina**  
**Schedule of Expenditures of Federal Awards**  
**For the year ended June 30, 2020**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Research and Development Cluster, Continued</b>				
<b>US Department of Health and Human Services, continued</b>				
Center for Targeted Therapeutics	93.859	2P20GM109091-06	-	2,163,497
HIV/Cocaine Neurotoxicity in Females	93.279	2R01DA013137-16	151,093	398,944
The Development of Sustained Attention in Infants	93.865	2R01HD018942-31	-	562,138
Modifying Intrinsic Growth Capacity through Axonal mRNA Translation	93.853	2R01NS041596-10A1	191,165	137,929
Sensory-Motor Systems and Conceptual Processing in the Healthy and Impaired Brain	93.173	2R56DC010783-07A1	-	161,005
Biomedical-Behavioral Interface: Prevention and Developmental Sciences Training	93.859	2T32GM081740-11A1	-	15,465
Center for the Study of Aphasia Recovery (C-STAR)	93.173	3P50DC014664-04S1	-	155,016
AhR Ligands in Epigenetic Dysregulation of T Cells	93.855	3R01AI123947-04S1	-	15,713
A Nutrition-Based Approach to Reduce Heart Disease Risk Among Overweight African Americans: Use of				
Soul Food Plant-Based or Omnivorous Diets to Address Cardiovascular Disease	93.837	3R01HL135220-04	-	12,893
Molecular Basis of Exercise-induced Changes in HDL Function	93.837	3R01HL146462-02S1 REVISED	-	5,592
Emergence and Stability of Autism in Fragile X Syndrome	93.242	3R01MH090194-08S1	-	77,378
Modifying Intrinsic Growth Capacity through Axonal mRNA Translation	93.853	3R01NS041596-11S1	-	2,521
Interventions to Promote Healthy Lifestyle and Academic Performance in Children during the Summer Months	93.865	3R21HD090647-01A1S1	-	14,626
Investigating the Role of Structured Days on Accelerated Weight Gain during Summer: A Natural Experiment	93.865	3R21HD095164-01S1 REVISED	-	68,213
The Effects of Ojeok-San on Neuro-Immune Interactions on Cancer-Induced Visceral Pain	93.213	4R00AT009206-03	-	250,088
K99/R00 Grant Transfer Application: Acceptability and Feasibility of Unsupervised HIV Self-Testing Among				
Networks of Men in Tanzania	93.242	4R00MH110343-03	-	262,755
Concurrent Treatment of Substance Abuse and Child Maltreatment	93.279	4R01DA031780	-	(4,866)
Maternal HIV: Developmental Neurotoxicity	93.865	4R01HD043680	-	1,496
Families Improving Together (FIT) for Weight Loss	93.865	4R01HD072153	739	4,365
Online vs Staff Delivery: Child & Family Outcomes, Cost Analysis and Satisfaction	93.242	4R01MH097699	25,972	56,760
Enhancing the Efficacy of 5 Fluorouracil using Emodin as a Complementary Therapeutic	93.213	5F31AT009820-02	-	16,911
Enhancing the Efficacy of 5 Fluorouracil using Emodin as a Complementary Therapeutic	93.213	5F31AT009820-03	-	19,567
Early Indicators of Autism Risk in Down Syndrome	93.865	5F32HD097877-02	-	32,392
The Developing Real Incentives and Volition for Exercise (DRIVE) Project	93.837	5F32HL138928-02	-	65,245
Colorectal Cancer Screening Program in South Carolina	93.800	5NU58DP006137	71,687	97,346
Colorectal Cancer Screening Program in South Carolina	93.800	5NU58DP006137-04-00	-	49
Colorectal Cancer Screening Program in South Carolina	93.800	5NU58DP006137-05-00	216,817	591,377
Interactions of Climate Change on Oceans and Human Health (CAPICCOHH): Assessment of Effects on				
Ocean Health Related Illness and Disease and Development of Prevention Strategies to Better Protect				
Public Health - ADMIN CORE	93.113	5P01ES028942-02	216,216	1,105,933
Interactions of Climate Change on Oceans and Human Health (CAPICCOHH): Assessment of Effects on				
Ocean Health Related Illness and Disease and Development of Prevention Strategies to Better Protect				
Public Health - ADMIN CORE	93.113	5P01ES028942-03	-	669
South Carolina IDeA Network of Biomedical Research Excellence (INBRE) Admin Core - Year One				
of Competing Renewal	93.859	5P20GM103499-18	1,473,236	1,508,487
South Carolina IDeA Network of Biomedical Research Excellence (INBRE) Admin Core - Year One				
of Competing Renewal	93.859	5P20GM103499-19	185,283	334,104
COBRE - Center for Dietary Supplements and Inflammation (Admin Core Year 4)	93.859	5P20GM103641-07	-	1,783,964
Center For Targeted Therapeutics - Admin Core (Year 2)	93.859	5P20GM109091-05	-	198,218
Carolina Center on Alzheimer's Disease and Minority Research (CCADMR) - Admin Core	93.866	5P30AG059294-02	44,406	562,197
Center For Colon Cancer Research - Administrative Core	93.859	5P30GM103336-05	-	3,254
Center for the Study of Aphasia Recovery (C-STAR)	93.173	5P50DC014664-03	-	(62,381)
Center for the Study of Aphasia Recovery (C-STAR)	93.173	5P50DC014664-04	803,193	1,828,446
Center for the Study of Aphasia Recovery (C-STAR)	93.173	5P50DC014664-05	-	171,977
Addressing Acquiescence: Reducing Survey Error To Promote Latino Health	93.393	5R01CA172283-05	20,524	35,076
A Nutrition-Based Approach to Reduce Heart Disease Risk Among Overweight African Americans: Use of				
Soul Food Plant-Based or Omnivorous Diets to Address Cardiovascular Disease	93.837	5R01HL135220-02	-	(394)
A Nutrition-Based Approach to Reduce Heart Disease Risk Among Overweight African Americans: Use of				
Soul Food Plant-Based or Omnivorous Diets to Address Cardiovascular Disease	93.837	5R01HL135220-03	-	644,946
A Nutrition-Based Approach to Reduce Heart Disease Risk Among Overweight African Americans: Use of				
Soul Food Plant-Based or Omnivorous Diets to Address Cardiovascular Disease	93.837	5R01HL135220-04	-	56,897
Biomedical-Behavioral Interface: Prevention and Developmental Sciences Training	93.859	5T32GM081740-10	-	(1,957)
Biomedical-Behavioral Interface: Prevention and Developmental Sciences Training	93.859	5T32GM081740-12	-	352,300
Coordinating Center for Research to Promote the Health of Children with Birth Defects and People				
with Developmental and Other Disabilities	93.073	5U19DD001218-02-00	556,038	676,656
Coordinating Center for Research to Promote the Health of Children with Birth Defects and People				
with Developmental and Other Disabilities	93.073	5U19DD001218-03-00	798,115	1,001,235
Health Promotion and Disease Prevention Research Centers; Faith, Activity, and Nutrition: Dissemination				
in Underserved Communities(CENTER CORE)	93.135	5U48DP005000-05-00	12,388	439,824
USC PRC Center and Core Research Project: National Implementation Study of the Faith, Activity, and				
Nutrition (FAN) Program (Center Core)	93.135	6U48DP006401-01-01	-	652,479
Socio-Ecological Coupling of Antibiotic Resistance and the Potential Risk of Human Exposure to AR				
Pathogens in Bioaerosols Generated During Wastewater Treatment	93.RD	75D30118C02903	50,237	291,374
Insights into Microbiome and Environmental Contributions to Sickle Cell Disease and Leg Ulcers Study				
(INSIGHTS Study)	93.RD	75N92019P00362	-	4,150
A Screen for Epigenetic Regulators of Hematopoiesis Reveals a Requirement for the Hbo1 Complex				
during Hematopoietic Stem Cell Specification	93.847	7K01DK104974-03	-	38,853
Developing a Trauma-Focused Intervention for Older Adults Living with HIV	93.242	7K01MH115794-02	-	159,161
Vascular Pathogenesis of Port Wine Stain	93.846	7R01AR073172-02	25,592	464,768
Chronic Moderate Sleep Restriction in Older Long and Older Average Sleepers - Year 2 progress report				
and Year 3 continuation	93.233	7R01HL095799-03	-	36
Kynurenic Acid, Sleep and Cognition	93.853	7R01NS102209-03	-	307,315
Trials and ReseArch Networks FOR More (TRANSFORM)-South Carolina	93.865	8UG1OD024956-02	123,799	285,447
Exploring and Synthesizing the Association of the HEI-2015 with Mortality Outcomes				
Across Cohorts - NCI Manuscript	93.RD	HHSN261201800769P	-	2,451
Exploring how B cell Maturation Pathways Influence Microbiota Composition and Host Health	93.855	KA1123481B	-	2,688
Improving Adherence to Adjuvant Hormonal Therapy among Disadvantaged Breast Cancer Survivors	93.398	KCA193667A	-	106,370
Behavioral Health Care in Army Warrior Transition Units	93.279	KDA037412A	(1,362)	30,820
Examining mRNA Localization in Central Sensory Axons after Peripheral Nerve Injury	93.853	KNS105879A	-	85,328
South Carolina IDeA Network of Biomedical Research Excellence (INBRE) Admin Core - Year One				
of Competing Renewal	93.859	P20GM103499	-	47,703
COBRE - Center for Dietary Supplements and Inflammation (Admin Core Year 4)	93.859	P20GM103641	-	(1,304)
South Carolina IDeA Network of Biomedical Research Excellence (INBRE) Admin Core - Year One				
of Competing Renewal	93.859	PGM103499F	547,566	1,292,433
Center for Targeted Therapeutics	93.859	PGM103641B	-	51,437
Effects of Sleep Deficiency During Postpartum on Body Weight and Body Fat Changes in				
African American and White Women	93.307	R21MD012740	-	162,539
South Carolina-Advancing Diversity in Aging Research Undergraduate Program	93.866	RAG050484A	-	262,252
Hypocretin/orexin Modulation of Cognitive Correlates of Brain Aging	93.866	RAG050518A	61,543	199,734
Metallopolymer and Antibiotic Bioconjugates against Multidrug Resistant Bacteria	93.855	RAI120987A	-	22,148
Evaluating a Food Hub's Impact on Food Access, Diet and Weight in a Food Desert	93.393	RCA180336A	-	1,475
Evaluating a Food Hub's Impact on Food Access, Diet and Weight in a Food Desert	93.393	RCA180336B	-	14,062
Nano-cocktail Overcomes Multidrug-Resistance for Ovarian Cancer Therapy	93.395	RCA188847A	-	(30,438)
Impact of HIV-1 Tat Protein on Cocaine-Dopamine Transporter Interaction	93.279	RDA035714C	159,036	383,242
Center for the Study of Aphasia Recovery (C-STAR)	93.173	RDC015465A	-	37,457

***The accompanying notes are an integral part of this schedule***

**University of South Carolina**  
***Schedule of Expenditures of Federal Awards***  
***For the year ended June 30, 2020***

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Research and Development Cluster, Continued</b>				
<b>US Department of Health and Human Services, continued</b>				
Impact of Disparities in Food Security on Glycemic Control and Health Care Utilization Among Youth and Young Adults with Diabetes	93.847	RDK117461A	323,912	575,013
South Carolina Post-Baccalaureate Research Program	93.859	RGM066526D	-	347,178
Families Improving Together (FIT) for Weight Loss	93.865	RHD072153C	-	1,060
Investigating the Role of Structured Days on Accelerated Weight Gain during Summer: A Natural Experiment	93.865	RHD095164A	-	132,499
Physical Activity During the Transition from Elementary School to High School	93.837	RHL091002B	-	47,471
Sparstolonin B as an Anti-Atherogenic Agent	93.837	RHL116626B	-	(2,493)
Analysis of TGFBeta Ligands Function in Heart Development and Disease	93.837	RHL126705B	-	63,743
PeRiodontal treatment to Eliminate Minority InEquality and Rural disparities in Stroke (PREMIERS)	93.307	RMD009738A	560,109	651,199
Emergence and Stability of Autism in Fragile X Syndrome	93.242	RMH090194B	-	478,571
Does Preference-based HIV Testing Increase Uptake in High Risk Populations?	93.242	RMH106388B	196,051	399,873
Protein Succination as a Mediator of Neuropathology in Mitochondrial Disease	93.853	RNS092938A	-	64,107
Electronic cigarettes in Latin America: Evaluation of impacts and policy options	93.989	RTW010652A	211,607	295,427
Biomedical-Behavioral Interface: Prevention and Developmental Sciences Training	93.859	TGM081740C	-	(2,254)
<b>Passed through programs from:</b>				
<b>AcePre, LLC</b>				
Emodin as a complementary dietary therapy to reduce toxicity of 5 fluorouracil	93.213	18060FB55	-	26,496
<b>Advanced Smart Systems and Evaluation Technology</b>				
Mitigating Falls in Older Adults through Low-cost, Non-intrusive Activity and Gait Analysis from Floor Vibrations - STTR sub-contract with Advanced Smart Systems and Evaluation Technologies (ASSET)	93.866	1R41AG059475-01A1	-	44,231
<b>Brigham and Women's Hospital</b>				
Partnership in Implementation Science for Geriatric Mental Health (PRISM) - Administrative Core	93.242	117722	-	23,266
Partnership in Implementation Science for Geriatric Mental Health (PRISM) - Prism Capacity Building Component	93.242	117729	-	17,972
Partnership in Implementation Science for Geriatric Mental Health (PRISM) - Prism Scale Up Study	93.242	117730	-	114,084
<b>Children's Hospital, PA</b>				
COG: Per Case Reimbursement (NCTN Grant 2U10CA180886)	93.395	FP00026529_SUB104_01	-	5,688
COG: Workload Intensity (NCTN Grant 2U10CA180886)	93.395	FP00026529_SUB279_01	-	4,550
COG Chair Grant: Per Case Reimbursement	93.701	U10CA098543	-	10,834
<b>Children's Trust Fund of South Carolina</b>				
Children's Trust MIECHV Workforce Evaluation	93.870	2016USC02	-	7,356
SC MIECHV Client and Staff Attrition Evaluation	93.870	MIEC-2019-2021-RMHRC-1	-	3,196
Understanding How State Level Leadership Influences Implementation of MIECHV: A Study of South Carolina's State Lead Agency	93.870	X10MC32219	-	362,802
<b>Circa Bioscience, LLC</b>				
Development of an Autism Spectrum Disorder Screening Test Based upon Metabolic Profiling of Fresh Blood Samples	93.242	C115642-6/ C115642-3	-	68,169
<b>Clemson University</b>				
Theranostic approach to treat abdominal aortic aneurysms	93.837	1935-209-2011885	-	124,417
Nanowired human cardiac spheroids for heart repair	93.837	1957-209-2012106	-	33,154
Targeted Therapy to Reverse Vascular Calcification	93.837	2095-209-2013055	-	262,516
Cardiovascular Calcification: Mechanisms and Therapy	93.837	2150-209-2013514	-	7,182
<b>Cornell University</b>				
Modeling Social Behavior for Healthcare Utilization in Depression	93.242	194536 5R01MH105384-05	-	95,491
(Supplemental) Modeling Social Behavior for Healthcare Utilization in Depression	93.242	194543 5R01MH105384-05S1	-	12,724
<b>Davidson College</b>				
Precision Glycopolymer Bacteriochlorin Conjugates for Biomedical Applications	93.859	OGC 2015-16	-	41,758
<b>Drexel</b>				
Effects of the SCI Microenvironment on Intra-Axonal Signaling	93.853	800030-5826	-	(2,550)
<b>Duke University</b>				
Subaward: Positive Outcomes for Orphans (POFO): HIV Risk as Young Adults	93.865	203-7798	-	982
Pediatric Migraine Registry: A National Registry of Children and Adolescents with Migraine	93.103	5U18FD006298-02	-	980
A Tailored School- Based Intervention to Increase Vaccine Uptake Among Adolescents in the Rural South	93.185	A030578	-	20,882
A Tailored School- Based Intervention to Increase Vaccine Uptake Among Adolescents in the Rural South	93.185	A032051	-	53,288
Subaward: Positive Outcomes for Orphans (POFO): HIV Risk as Young Adults	93.865	A03-2078	-	45,394
TRANScranial Direct Current Stimulation for Post-Stroke Motor Recovery - A Phase II Study (TRANSPORT 2) – Sub-Contract with Duke University	93.853	A032268	-	39,829
NIH Centers for AIDS Research (CFAR) Engaging pharmacies for HIV prevention in South Carolina	93.855	A033176 / 5P30AI064518-15	-	26,986
POPS-Pharmacokinetics of Understudied Drugs Administered to Children per Standard of Care	93.RD	SPS #235432	-	17,811
<b>Emory University</b>				
Reducing Racial Disparities in Access to Kidney Transplantation: the RaDIANT Regional Study	93.307	A089741	-	13,698
Reducing Racial Disparities in Access to Kidney Transplantation: the RaDIANT Regional Study	93.307	A309703	-	3,009
<b>EnQ, LLC</b>				
eCPAT: Advancing Public Park Information and Technology Resources to Diverse Audiences for Healthy Communities	93.393	11570FB44	2,509	25,089
<b>Environment and Health Group, Inc.</b>				
mHealth for ART adherence by HIV+ African Americans age 45 & older	93.307	2R44MD007161-03	-	11,931
<b>Florida State University</b>				
Scale It Up: Effectiveness-Implementation Research to Enhance HIV-Related Self-Management among Adolescents and Young Adults - Analytic Core for U19 Application	93.865	R02134 5U19HD089875-05 Revised	-	22,577
<b>Furman University</b>				
Memory Consolidation During Waking Rest (revision)	93.242	13-0358	-	2,794
<b>Georgia State University</b>				
Communicating about Nicotine and Differential Risks of Tobacco Products	93.077	SP00014095-01	-	59,073
<b>Greenville Health System</b>				
GHS Reach Expansion: A Caregiver Coaching Intervention for High Risk Patient/Caregivers to Extend Dementia Capable Services	93.470	G002219-2	-	69,459
<b>Henry M. Jackson Foundation</b>				
Role of Ly6K in TGF and Immune Escape Pathways of Triple Negative Breast Cancer	93.396	1R01CA227694-01 / 4498	-	113,946
<b>Indoor Biotechnologied, Inc.</b>				
Antigenic Determinants of Asthma-Associated Allergens for Design of Immunotherapy	93.855	R01AI077653	-	69,820
<b>Johns Hopkins University</b>				
Evaluation of a New Policy Promoting Nutrition and Physical Activity in Family Child Care in South Carolina - Sub-contract with Johns Hopkins University	93.865	2003548903	-	331,660
<b>Mary Black Foundation</b>				
Evaluation Services for Mary Black Foundation's OAH1B Grant	93.297	TP1AH000119-01-00	-	103,846
<b>Medical University of South Carolina</b>				
South Carolina Clinical & Translational Research Institute (SCTR)	93.350	10009167	-	26,002
Evaluation of Harm Reduction Messages to Promote Vaping Among Adult Smokers (MUSC - Pilot Project)	93.393	11540FB02	-	8,611
Brain Connectivity Supporting Language Recovery in Aphasia	93.173	2R01DC014021-06 A00-1555-S002	-	175,512
South Carolina Clinical & Translational Research Institute (SCTR)	93.350	A00-2219-S006	-	10,138
Number, Primary and Secondary Diagnoses, and Costs of Inpatient Hospitalizations in a Population-Based Cohort of People with Spinal Cord Injury	93.433	A00-2862-S001	-	14,106
Enhancing School-Based Violence Prevention through Multilevel Racial/Ethnic Discrimination Intervention	93.307	A19-0097-S001	-	19,046
Speech entrainment for aphasia recovery (SpARc)	93.173	A20-0069-S002	-	291

***The accompanying notes are an integral part of this schedule***



University of South Carolina

Schedule of Expenditures of Federal Awards

For the year ended June 30, 2020

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Research and Development Cluster, Continued</b>				
<b>US Department of Health and Human Services, continued</b>				
<b>Passed through programs from, continued:</b>				
<b>Medical University of South Carolina, continued</b>				
Number, Primary and Secondary Diagnoses, and Costs of Emergency Department Visits in a				
Population-based Cohort of People with Spinal Cord Injury	93.433	A20-0086-S001	-	2,319
Brain Connectivity Supporting Language Recovery in Aphasia	93.173	MUSC14-031	-	(53,124)
South Carolina Cancer Health Equity Consortium (SC CHEC)	93.398	MUSC 15-076	-	12,956
South Carolina Clinical and Translational Research Institute - HSSC Subcontract	93.350	MUSC15-104	-	30,998
Evaluating How Tobacco Control Policies are Shaping the Nicotine Delivery Market	93.393	MUSC16-042-8B807	-	39,833
South Carolina Clinical & Translational Research Institute (SCTR)	93.350	MUSC18-039-8B122	-	(18,457)
TRANScranial Direct Current Stimulation for Post-Stroke Motor Recovery - A Phase II Study (TRANSPORT 2) - Sub-Contract with MUSC	93.853	MUSC18-123-8D639	-	(13,278)
<b>MGH Institute of Health Professions</b>				
Orthography and Phonology in Word Learning as a Predictor of Dyslexia in Children with Language Impairment	93.173	300315	-	(2,009)
<b>Michigan State University</b>				
Effects of bright light on co-occurring symptoms in breast cancer survivors: A personalized intervention	93.361	RC110674USC	-	1,956
<b>National Jewish Health</b>				
Regulation of Gene Expression in the Anaphylactic Pathway	93.855	20116902	-	23,796
<b>Northern Illinois University</b>				
Home C2OOKING: Creative Culinary Opportunities Offering Kids Inquiry-Based Nutritional Genius	93.859	G1A62667-5	6,224	19,589
<b>Oregon Health and Science University</b>				
The Impact of Emergency Medicaid Policy on Reproductive Health Disparities Among New Immigrants	93.307	1013826_SC	-	34,939
<b>Palmetto Care Connections</b>				
Evaluation of the Network Development Grant, Palmetto Care Connections	93.912	D06RH31:064	-	21,211
<b>Palmetto GBA</b>				
Research Agreement between BCBS and USC	93.RD	11520FP00	-	891
<b>Palmetto Health</b>				
Sleep for Stroke Management And Recovery Trial (Sleep SMART)	93.853	U00026947	-	2,379
<b>Partners Healthcare Research Management</b>				
Randomized Trial to Prevent Vascular Events in HIV ? REPRIEVE	93.837	225712	-	5,935
<b>PPI Pharmaceuticals, LLC</b>				
Polo-box PLK1 inhibitors target tumors resistant to ATP competitive compounds	93.395	11110-FA87	-	2,480
<b>Prisma Health-Midlands</b>				
Healthy Start Initiative: Eliminating Disparities in Perinatal Health	93.926	51-8781_Contract No._16775	-	122,778
<b>Augusta University</b>				
Implementation of Medical Homes for Evidence Based Care of Adolescents and Adults with Sickle Cell Disease - Diversity Supplement	93.839	35324-1	-	7,914
<b>SC Campaign to Prevent Teen Pregnancy</b>				
Expanding the Reach of Effective Teen Pregnancy Prevention Programs in High Need South Carolina Communities (Tier 1B) (OAH1B)	93.297	1TP1AH000126-04-00	-	8,376
Expanding the Reach of Effective Teen Pregnancy Prevention Programs in High Need South Carolina Communities (Tier 1B) (OAH1B)	93.297	1TP1AH000133-01-00	-	5,975
Expanding the Reach of Effective Teen Pregnancy Prevention Programs in High Need South Carolina Communities (Tier 1B) (OAH1B)	93.297	1TP1AH000133-05-00	-	108,339
<b>SC Department of Health and Environmental Control</b>				
Analysis of SC Multiple Illicit Drugs Survey in Support of SC DHEC Opioid Grant	93.354	CY-19-016/4000043518	-	20,000
South Carolina Muscular Dystrophy Surveillance System	93.315	MC-15-011	11,877	87,306
South Carolina Muscular Dystrophy Surveillance System	93.315	MC-20-005/ LR-2020-08	-	60,977
CARE Evaluation of DHEC's Division of Oral Health - SC Takes Action to Improve Oral Health Outcomes Grant	93.RD	MC-20-006	-	18,199
SC Muscular Dystrophy Surveillance, Tracking, and Research Network (SC MD STARnet) DHEC Subcontract - SC MD STARnet Component A – Surveillance	93.315	PH-0-520 COMP A	-	62,686
SC Muscular Dystrophy Surveillance, Tracking, and Research Network (SC MD STARnet) - DHEC Subcontract SC MD STARnet Component C – Enhanced Dissemination	93.315	PH-0-521 COMP C	-	40,936
<b>SC Department of Mental Health</b>				
Zero Suicide Initiative	93.243	4400011673	-	74,812
Young Lives Matter	93.243	4400011923	-	80,680
Zero Suicide Initiative	93.243	1H79SM080341-01	-	52,762
CHR-P Beckman Grant Evaluation	93.243	U00026572	-	22,530
CHR-P Beckman Grant Evaluation	93.243	U00027262	-	8,332
<b>SC Department of Social Services</b>				
Child Welfare Quality Assurance	93.648	4400010906	-	(181)
<b>SC Research Foundation</b>				
Type 1 Diabetes TrialNet: Natural History of the Development of Type 1 Diabetes	93.998	0000137866/0000145802	-	10,853
Rural Health Research Center Cooperative Agreement 2014-2015	93.155	1UCRH305390102	-	1
Rural Health Research Center Cooperative Agreement 2014-2015	93.155	5U1CRH30539-03-00	11,058	242,039
Rural Health Research Center Cooperative Agreement 2014-2015	93.155	5U1CRH30539-04-00	2,837	289,363
<b>Senex Biotechnology, Inc.</b>				
CDK8/19 inhibitor for the treatment of HER2+ breast cancer	93.395	11110FA95	-	15,978
Targeting CDK8 for the Treatment of Vein Graft Failure	93.837	18020FB63	-	9,489
CDK8/19 inhibitors for therapy of advanced prostate cancer	93.395	2R44CA203184-02A1	-	33,345
<b>Spartanburg School District 7</b>				
Mary Black Foundation Implementation of YRBS, School Health Profiles, and Sexual Health Curriculum	93.079	11580FA88	-	15,411
Mary Black Foundation Implementation of YRBS, School Health Profiles, and Sexual Health Curriculum	93.079	U00027003	-	14,460
<b>The Miriam Hospital</b>				
Phone Coaching as a Rescue Strategy for Early Non-responders Enrolled in an Internet-delivered Weight Loss Program - Sub-contract with Brown University - Sub-contract with The Miriam Hospital	93.847	710-7147122	-	29,217
<b>The Pennsylvania State University</b>				
Role of Sox2 in Stress Adaptations to Ovarian Cancer Anchorage Independence	93.396	SCCA230628	-	9,733
<b>The Regents of the University of California</b>				
Integrative Functions of the Planum Temporale	93.173	2015-3293	-	182,745
Multisectoral Agricultural Intervention to Improve Food Security, Prevent Treatment Failure, and Reduce Co-morbidities Among People Living with HIV in Kenya	93.242	9343sc	-	73,631
Advancing Alzheimer's Family Caregiving Interventions and Research Capacity in Vietnam (sub to UC Davis)	93.866	A20-0448-S001	-	153,984
<b>The University of Alabama</b>				
Conformational Dynamics and Allosteric Regulation During Stress-responsive Metallocofactor Assembly	93.859	R01GM112919	-	723
Conformational Dynamics and Allosteric Regulation During Stress-responsive Metallocofactor Assembly	93.859	UA15-040	-	38,586
<b>The University of Nebraska-Lincoln</b>				
Group Testing for Infectious Disease Detection: Mutlplex Assays and Back-end Screening	93.855	24-0548-0008-004-	-	60,267
<b>Trustees of Boston University</b>				
Improving Accuracy and Reliability in Cancer Screening Tests	93.393	4500002637	-	11,994
<b>University of Alabama-Birmingham</b>				
Comprehensive Cancer Center Core Support Grant	93.310	000527042-SP031-001	-	24,027
<b>University of Arkansas for Medical Sciences</b>				
ECHO - Salary Support for ISPCTN Leadership Committee	93.865	51460	-	14,193
Data Coordinating and Operations Center (DCOC) for the IDeA States Pediatric Clinical Trials Network - VDORA	93.865	51460	-	101,330
UAMS-VDORA Travel	93.865	51460 8U24OD024957	-	794

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**University of South Carolina**  
***Schedule of Expenditures of Federal Awards***  
***For the year ended June 30, 2020***

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Research and Development Cluster, Continued</b>				
<b>US Department of Health and Human Services, continued</b>				
<b>Passed through programs from, continued:</b>				
<b>University of Arkansas for Medical Sciences, continued</b>				
ECHO - Salary Support for ISPCTN Leadership Committee	93.865	51460 - Leadership	-	12,691
Genetic Variability in DHFR and Folic Acid Supplementation as Novel Risk Factors for Aggressive Prostate Cancer Subcontract w/ University of Ark	93.393	52603-USC	-	33,619
TRANSFORM-SC Addendum ACT NOW	93.865	G190121014	50,260	83,785
<b>University of California, Davis</b>				
Language in Fragile X Syndrome	93.865	R01HD024356	-	140,011
<b>University of Central Florida</b>				
University of Central Florida Subaward: Project HARMONY	93.086	14276042-01	-	102,267
<b>University of Connecticut</b>				
Multi-Sectoral Agricultural Intervention to Improve Nutrition, Health, and Developmental Outcomes of HIV-infected and Affected Children in Western Kenya	93.242	136059/KFS#5637360	-	15,729
<b>University of Illinois</b>				
Improving Sickle cell care in Adolescents & Adults in Chicago (ISAAC) subcontract from U. of Illinois-Chicago	93.839	16045	-	7,115
<b>University of Iowa</b>				
Neural Mechanisms of Vocal Communication in the Human Brain	93.173	1001620374/W000828030	-	23,506
<b>University of Kansas Center for Research</b>				
Exposure and Emotion Regulation as Predictors of Adjustment to Trauma	93.242	FY2016-116	-	75,944
<b>University of Kentucky</b>				
University of Kentucky Markey Cancer Center - Cancer Center Support Grant	93.397	01349-20-077/PO7800005000	-	32,949
Dynamic Signaling of NRG3-ErbB4 in the Hippocampus Mediates Nicotine Withdrawal Phenotypes (NIH/NIDA 1R01-DA044311)	93.279	3200002696-20-051	-	48,526
GMaP Subcontract with University of Kentucky	93.397	3210001063-19-074	-	1,425
<b>University of Maryland</b>				
Center for Disability Resources Library Video Production Studio	93.879	1600679	-	4,964
Targeted Manipulation of Brain KYNA by Genetic and Pharmacological Means: Biochemical and Functional Effects	93.242	3000027; Subaward: 2973/PO#1000000326	-	130,242
<b>University of Massachusetts</b>				
National implementation of FOYC+CImPACT in the Bahamas: implementation strategies and improved outcomes	93.865	OSP2018103	-	12,306
<b>University of Michigan</b>				
University of Michigan Subaward: A Positive PATH (Promoting Activity and Trajectories of Health) for Children	93.837	3004173082	-	65,385
The Effect of Built and Social Environments on Childhood Obesity and Racial/Ethnic Disparities in the National Healthy Communities Study - Sub-contract with the University of Michigan	93.837	3004659122	-	5,140
The Impact of Tobacco Control Policies on Health Equity in the United States	93.393	3004806996	-	42,492
The Effect of Built and Social Environments on Childhood Obesity and Racial/Ethnic Disparities in the National Healthy Communities Study - Sub-contract with the University of Michigan	93.837	3005581808	-	39,770
The Impact of Tobacco Control Policies on Health Equity in the United States - Diversity Supplement	93.393	SUBK00010253	-	59,844
<b>University of North Carolina at Chapel Hill</b>				
Promoting Physical Activity in Young Adult Cancer Survivors using mHealth and Adaptive Tailored Feedback Strategies	93.395	5107125	-	17,624
Population-base Diabetes in Youth Registry	93.945	5111789	-	57,962
Population-base Diabetes in Youth Registry	93.945	5114241	-	41,643
Little Cigar and Cigarillo Warnings to Reduce Tobacco-Related Cancers and Disease	93.077	5115222	-	24,038
<b>University of South Dakota</b>				
NRF2 Signaling in the Cross-Talk between Proteasomal and Lysosomal Degradation	93.837	A00-0282-S001	-	13,226
NRF2 Signaling in the Cross-Talk between Proteasomal and Lysosomal Degradation	93.837	A00-0282-S001 / UP1700008A	-	92,037
NRF2 Signaling in the Cross-Talk between Proteasomal and Lysosomal Degradation	93.837	UP1700008A	-	(5,130)
<b>University of Tennessee</b>				
R01 Concurrent Care with University of Tennessee Knoxville	93.361	A9-0157-S003	-	39,372
<b>University of Texas Health Sciences Center</b>				
Development and Validation of a Measure of Organizational Readiness (motivation x capacity) for Implementation	93.399	SA0000605/0014035A	-	127,638
<b>University of Vermont</b>				
Internet Assisted Obesity Treatment: Enhanced by Motivational Interviewing	93.847	29177SUB51777	6,016	239,914
<b>University of Waterloo</b>				
Pilot Award: Cross-validation of auction modalities to assess demand for emerging nicotine products	93.393	UW#53182-10000	-	(28,124)
<b>Upper Midlands Rural Health Network</b>				
Catawba CMHC/Community Medicine Foundation Primary Care Initiative	93.243	18130FA35	-	10,681
Evaluation of the Network Development Grant, Upper Midlands Rural Health Network	93.912	18130FA37	-	2,539
Evaluation of the Network Development Grant, Upper Midlands Rural Health Network	93.912	U00026648	-	11,809
Catawba CMHC/Community Medicine Foundation Primary Care Initiative	93.243	U00027034	-	9,339
<b>Virginia Commonwealth University</b>				
RFID based Wireless System for Self-powered Implantable Pediatric Cardiac Sensors	93.837	FP00004110_SA001	-	(7,856)
<b>Wake Forest Baptist Medical Center</b>				
Systolic Blood Pressure Intervention Trial: Alzheimer?s, Seniors, and Kidneys (SPRINT ASK)	93.866	WFUHS 115238	-	15,379
<b>Wake Forest University Health Sciences</b>				
ImPact: Increased Monitoring of Physical Activity and Calories with Technology	93.847	100750-550121	-	9,509
<b>Wright State University</b>				
eDarkTrends: Monitoring Cryptomarkets to Identify Emerging Trends of Illicit Synthetic Opioids Use	93.279	670501-1	-	129,404
SCH: kHealth: Semantic Multisensory Mobile Approach to Personalized Asthma Care	93.865	671072-1/P0063430	-	33,081
<b>Yale University</b>				
Image Guided Delivery of Bioresponsive Hydrogels	93.837	GR102135(CON-80001159)	-	23,899
<b>Total US Department of Health and Human Services</b>			<u>9,312,867</u>	<u>50,250,720</u>
<b>US Department of Homeland Security</b>				
<b>Passed through programs from:</b>				
<b>SC Universities Research and Education Foundation</b>				
Nuclear Forensics Graduate Fellowship Program - Formerly MUSC	97.130	2012-DN-130-NF0001	-	72,133
<b>Total US Department of Homeland Security</b>			<u>-</u>	<u>72,133</u>
<b>US Agency for International Development</b>				
<b>Passed through programs from:</b>				
<b>Chemonics International, Inc.</b>				
Rule of Law Certificate Program	98.RD	SUBIQC-168	-	203,647
<b>Total US Agency for International Development</b>			<u>-</u>	<u>203,647</u>
<b>Total Research and Development Cluster</b>			<u>15,754,254</u>	<u>\$ 96,026,255</u>
<b>Student Financial Aid Cluster</b>				
<b>US Department of Education</b>				
Financial Aid SEOG Grant	84.007	None	-	\$ 2,197,802
Financial Aid Federal Work Study	84.033	None	-	1,858,430
Federal Perkins Loan Program	84.038	None	-	12,859,783

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**University of South Carolina**  
***Schedule of Expenditures of Federal Awards***  
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Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b><u>Student Financial Aid Cluster, Continued</u></b>				
<b>US Department of Education, continued</b>				
Financial Aid Pell Grant	84.063	None	-	56,030,580
Financial Aid Direct Loans	84.268	None	-	303,441,125
Financial Aid TEACH Grant	84.379	None	-	170,746
Financial Aid Iraq and Afghanistan	84.408	None	-	11,622
<b>Total US Department of Education</b>			-	376,570,088
<b>US Department of Health and Human Services</b>				
Nursing Faculty Loan Program	93.264	EP1HP28846-02-00	-	700,335
Four Year Nursing Program	93.364	None	-	1,125,404
Health Professions Student Loan	93.342	None	-	791,442
<b>Total US Department of Health and Human Services</b>			-	2,617,181
<b>Total Student Financial Aid Cluster</b>			-	\$ 379,187,269
<b><u>Education Stabilization Fund under the CARES Act</u></b>				
<b>US Department of Education</b>				
COVID-19 Higher Education Emergency Relief Fund (HEERF) Student Aid Portion	84.425E	None	-	\$ 12,486,209
COVID-19 HEERF Institutional Portion	84.425F	None	-	945,498
COVID-19 HEERF Strengthening Institutions Program (SIP)	84.425M	None	-	27,700
<b>Total US Department of Education</b>			-	13,459,407
<b>Total Education Stabilization Fund under the CARES Act</b>			-	\$ 13,459,407
<b><u>477 Cluster</u></b>				
<b>US Department of Health and Human Services</b>				
<b>Passed through programs from:</b>				
<b>SC Department of Social Services</b>				
Improve the Quality of Child Care for South Carolina Families 2014-15	93.575	4400008002	-	\$ (791)
Management & Administration of the Child Care Resource and Referral Network 2014-2015	93.575	4400012827	141,597	1,957,106
Building a Statewide System for Inclusion 2014-15	93.575	4400017016	243,181	885,149
Improve the Quality of Child Care for South Carolina Families 2019-20	93.575	4400021510	-	179,364
South Carolina Preschool Development Grant Birth through Five	93.575	4400021672	238,000	460,660
Child Care Data Collection and Analysis 2019-2020	93.575	4400022334	-	213,841
<b>Total US Department of Health and Human Services</b>			622,778	3,695,329
<b>Total 477 Cluster</b>			622,778	\$ 3,695,329
<b><u>Economic Development Cluster</u></b>				
<b>US Department of Commerce</b>				
Developing a Tourism & Hospitality Employment Plan for South Carolina	11.307	04-69-07351	-	\$ 23,297
<b>Total US Department of Commerce</b>			-	23,297
<b>Total Economic Development Cluster</b>			-	\$ 23,297
<b><u>Highway Planning and Construction Cluster</u></b>				
<b>US Department of Transportation</b>				
<b>Passed through programs from:</b>				
<b>Clemson University</b>				
Adaptive Signal System Safety Impacts	20.205	1976-223-2012248	-	\$ 34,343
<b>SC Department of Transportation</b>				
Deep Soil Test Borings to Determine Shear Wave Velocities across South Carolina	20.205	1857	-	2,863
Calibration Of The Aashto Pavement Design Guide To South Carolina Conditions - Phase Ii	20.205	1869	287,529	385,329
Development of Pavement Design and Investigation Strategies for Non-Interstate Routes	20.205	1946	-	20,717
Improving SCDOT Project Delivery through Identifying Potentially Suitable Locations for Mitigation and Standardizing Section 401/404 Permit Application Process	20.205	2070	-	214,429
SPR No. 742: Automatic Extraction of Vehicle, Bicycle, and Pedestrian Traffic from Video Data	20.205	2087 (Project No. 742)	-	88,691
Administrative Services for Archsite II, FY2019-2020	20.205	2119	-	73,060
SPR 743: Pavement Performance Curves: Modeling Pavement Deterioration for SCDOT	20.205	2120	-	76,078
Development of a Users Manual for Application of the South Carolina Unit Hydrograph Method	20.205	Research Project No. 738	-	(15,255)
Assessment of Structural Degradation for Bridges and Culverts	20.205	Research Project No. 739	69,186	210,910
Utilization of Traffic Speed Deflectometer for Pavement Management	20.205	SPR 748	-	58,011
Estimating AADT on Non-Coverage Roads	20.205	SPR 749	-	4,466
<b>Total US Department of Transportation</b>			356,715	1,153,642
<b>Total Highway Planning and Construction Cluster</b>			\$ 356,715	\$ 1,153,642
<b><u>Highway Safety Cluster</u></b>				
<b>US Department of Transportation</b>				
<b>Passed through programs from:</b>				
<b>SC Department of Public Safety</b>				
Buckle Up, South Carolina Observational Survey 2019	20.616	U00026486	\$ -	\$ 23,521
<b>Total US Department of Transportation</b>			-	23,521
<b>Total Highway Safety Cluster</b>			\$ -	\$ 23,521
<b><u>Medicaid Cluster</u></b>				
<b>US Department of Health and Human Services</b>				
<b>Passed through programs from:</b>				
<b>Francis Marion University</b>				
Department of Health and Human Services Grant for a Branch Medical Campus of the SOM in Florence, SC	93.778	FRANCIS MARION	\$ -	\$ 1,279,585
<b>SC Department of Disabilities and Special Needs</b>				
Provision and Training and Certification for Self-Directed Attendant Care for ID/DD and HASCI Waiver Participants	93.778	20193043	-	3,432
<b>SC Department of Health and Human Services</b>				
PASOs Cultural Competence Services- DHHS bid	93.778	4400016376	-	47,313
SC Department of Health and Human Services and the Center for Child and Family Studies Medicaid Training for HHS Staff	93.778	A201812936A	-	399,471
DHHS/SCCAMRS Administrative Contract 2014/15	93.778	A20181593A	-	(49,187)
DHHS Contract for support of the work of the Office for the Study of Aging - Alzheimer's Registry (Registry)	93.778	A20190088A	-	(37,500)
SF 2015 and 2016 QI/QA Contract	93.778	A20191425A	-	(33,963)
For the Purchase and Provision of Education, Training and Management of the Alzheimer's Disease Registry	93.778	A20200088A	-	324,014
SC Department of Health and Human Services Policy and Health Services Consultation Activities	93.778	A202013005A	-	4,214,770
SFY2020 SCDHHS Medicaid Eligibility Monitoring and Quality Improvement Contract	93.778	A20201425A	-	1,009,991
DHHS/SCCAMRS Administrative Contract 2014/15	93.778	A20211593A	-	254,224

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<b>Medicaid Cluster, Continued</b>				
<b>US Department of Health and Human Services, continued</b>				
<b>Passed through programs from, continued:</b>				
<b>SC Department of Health and Human Services, continued</b>				
University of South Carolina School of Medicine Access Improvement / Rural Outreach Initiatives In partnership with South Carolina Office of Rural Health (HHS 1599)	93.778	A20211599A	343,090	1,001,654
Training and Certification for Attendant Care Services	93.778	A20220675A	-	915,061
Technical Assistance And Support For Policy Research And Evaluation For The South Carolina Medicaid Program	93.778	A202513005A	-	53
Outpatient Pediatric AIDS Clinic Services FY18-19	93.778	C02746M	-	4,360
Developmental Evaluation Center Services 2015	93.778	C95755M	-	125,887
<b>Total US Department of Health and Human Services</b>			<b>343,090</b>	<b>9,459,165</b>
<b>Total Medicaid Cluster</b>			<b>\$ 343,090</b>	<b>\$ 9,459,165</b>
<b>SNAP Cluster</b>				
<b>US Department of Agriculture</b>				
<b>Passed through programs from:</b>				
<b>SC Department of Social Services</b>				
DSS SNAP - ED Evaluation	10.561	4400019922	\$ -	\$ 71,369
DSS SNAP - ED Evaluation	10.561	4400019923	-	43,731
DSS SNAP - ED Evaluation	10.561	4400019925	-	76,247
Project 1: Statewide SNAP-Ed Priority Indicators Evaluation	10.561	4400022822	-	102,813
Project 3: Library Nutrition Support Implementation	10.561	4400022876	-	111,269
Project 4: FoodShare SC Maintenance and Sustainability Support	10.561	4400022877	-	88,729
Project 5: Food Policy Council Development, Maintenance, and Sustainability	10.561	4400022914	-	118,415
Project 2: Health Clinic Nutrition Support Implementation	10.561	4400022981	-	120,216
<b>Total US Department of Agriculture</b>			<b>-</b>	<b>732,789</b>
<b>Total SNAP Cluster</b>			<b>\$ -</b>	<b>\$ 732,789</b>
<b>Special Education Cluster (IDEA)</b>				
<b>US Department of Education</b>				
<b>Passed through programs from:</b>				
<b>SC Department of Education</b>				
South Carolina School Behavioral Health Alliance	84.027	13580FL26	\$ -	\$ (18,850)
Evaluation of South Carolina's State Systemic Improvement Plan (SC SSIP) Initiative	84.027	15290FA20	-	119,573
Project CREATE	84.027	None	-	458,655
SC Partnerships for Inclusion	84.027	10007238	-	127,011
Transition Alliance of South Carolina	84.027	TASC-18140FM67	-	17,396
Transition Alliance of South Carolina	84.027	TASC-U00026679	29,806	627,846
South Carolina School Behavioral Health Alliance	84.027	U00026793	-	370,041
<b>Total US Department of Education</b>			<b>29,806</b>	<b>1,701,672</b>
<b>Total Special Education Cluster (IDEA)</b>			<b>\$ 29,806</b>	<b>\$ 1,701,672</b>
<b>TRIO Cluster</b>				
<b>US Department of Education</b>				
Student Support Services	84.042	10006185	\$ -	\$ 27,885
Student Support Services 2010-15 Grant-in-Aid	84.042	P042A100121	-	7,545
Student Support Services (SSS)	84.042	P042A150221	-	309,173
Student Support Services	84.042	P042A150362	-	387,633
Student Support Services	84.042	P042A150610	-	374,809
Student Support Services 2010-15 Grant-in-Aid	84.042	P042A150625	-	34,158
Student Support Services 2010-2015	84.042	P042A151228	-	310,846
Talent Search Program	84.044	P044A160017	-	453,523
USC Lancaster Upward Bound	84.047	P047A120485	-	(11,799)
University of South Carolina Columbia Upward Bound Program	84.047	P047A121668	-	1,388
University of South Carolina Columbia Upward Bound Program	84.047	P047A170639	-	588,207
Upward Bound University of South Carolina Sumter Campus	84.047	P047A171401	-	279,380
USC Lancaster Upward Bound	84.047	P047A171434	-	217,840
2017 Ronald E. McNair Post-baccalaureate Achievement Program	84.217	P217A170015	-	221,404
<b>Passed through programs from:</b>				
<b>SC Research Foundation</b>				
Student Support Services 2010-15 Grant-in-Aid	84.042	P042A150625-18	-	266,528
<b>Total US Department of Education</b>			<b>-</b>	<b>3,468,520</b>
<b>Total TRIO Cluster</b>			<b>\$ -</b>	<b>\$ 3,468,520</b>
<b>WIOA Cluster</b>				
<b>US Department of Labor</b>				
<b>Passed through programs from:</b>				
<b>Upstate Workforce Investment Act</b>				
ACHIEVE 2018-19	17.259	10008451	\$ -	\$ 4,847
ACHIEVE 2019-20	17.259	19Y603C4-UWB	-	284,196
<b>Total US Department of Labor</b>			<b>-</b>	<b>289,043</b>
<b>Total WIOA Cluster</b>			<b>\$ -</b>	<b>\$ 289,043</b>
<b>Other Programs</b>				
<b>US Department of Agriculture</b>				
Five Acres in the Back 40 - Soil Health Technical Support and Education for Limited Resource and Minority South Carolina Farmers	10.902	68-4639-17-155	\$ -	\$ 118,757
Merit or Myth Social Media Platform to Advance Soil Health in South Dakota	10.924	68-6740-17-009	-	51,447
Continue Educating on the Value of Soil Health Principles, the Economic and Environmental Benefits for Every Farm, and of the Far-Reaching Benefits of Soil Health for Society	10.924	NR196740XXXXC004	-	146,310
USC Palmetto College - RUS DLT Grant - 2018	10.855	SC0703-C16	-	186,216
<b>Passed through programs from:</b>				
<b>SC Department of Health and Environmental Control</b>				
DHEC WIC and PASOs Contract	10.557	PO# LR-2020-07 WC-20-002	14,175	90,925
PASOs and WIC Partnership Agreement	10.557	CH-8-781	16,925	(31,650)
<b>Total US Department of Agriculture</b>			<b>31,100</b>	<b>562,005</b>
<b>US Department of Commerce</b>				
EDA Grant - University Innovation Center Clusters	11.303	ED17ATL3030040	-	122,037
USC Center for Applied Innovation and Advanced Analytics - i6	11.020	ED17HDQ0200091	-	330,869
<b>Total Department of Commerce</b>			<b>-</b>	<b>452,906</b>

***The accompanying notes are an integral part of this schedule***

**University of South Carolina**  
**Schedule of Expenditures of Federal Awards**  
**For the year ended June 30, 2020**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Other Programs, Continued</b>				
<b>US Department of Defense</b>				
Procurement Technical Assistance Program for Business Firms	12.002	SP4800-18-2-1882	-	(1,439)
<b>Total US Department of Defense</b>			-	(1,439)
<b>US Department of Housing and Urban Development</b>				
<b>Passed through programs from:</b>				
<b>City of Columbia</b>				
HOPWA Case Management, Mental Health and Substance Abuse Services in the Columbia EMSA	14.241	18190-FM48	-	4,899
Housing Opportunities for Persons With AIDS	14.241	U00026524	74,572	338,949
<b>SC Department of Administration</b>				
Mitigation Needs Assessment for CDBG-MIT Plan	14.228	U00027132	-	37,217
<b>SC Department of Health and Environmental Control</b>				
DHEC Housing Opportunities for Persons with AIDS (HOPWA) Funding - Newberry County	14.241	10010052	-	300
DHEC Housing Opportunities for Persons with AIDS (HOPWA) Funding - Newberry County	14.241	HV-9-583	-	17,091
<b>Total US Department of Housing and Urban Development</b>			74,572	398,456
<b>US Department of Interior</b>				
Operation of the Mid-America Integrated Seismic Network 2015-2019 - USC	15.807	G15AC00022	-	54,083
<b>Total US Department of Interior</b>			-	54,083
<b>US Department of Justice</b>				
<b>Passed through programs from:</b>				
<b>SC Department of Public Safety</b>				
Identifying Juvenile Victims and High Risk Juveniles of Sex Trafficking in South Carolina	16.540	1J17003	-	16,910
1J15007- Connection of Child Maltreatment and Juvenile Justice	16.540	1J17004	-	25,145
Identifying and Responding to Juvenile Victims and High Risk Juveniles of Sex Trafficking in South Carolina	16.540	1J18003	-	33,808
Connection of Child Maltreatment and Juvenile Delinquency	16.540	1J18004	-	76,769
<b>SC Office of the Attorney General</b>				
SC VOCA 2018 - Expanding Advocacy at USC	16.575	1V18087	-	31,919
SC VOCA 2019 - Expanding Advocacy at USC	16.575	1V19063	-	27,300
<b>Total US Department of Justice</b>			-	211,851
<b>US Department of State</b>				
Justice Sector Training, Research, and Coordination Plus (JusTRAC+) Program Project 1	19.703	SINLEC18CA2068	-	471,236
<b>Passed through programs from:</b>				
<b>FHI 360</b>				
Study of U.S. Institutes for Student Leaders from Europe Institute in Civic Engagement	19.009	PO 19002773	-	155,635
<b>Total US Department of State</b>			-	626,871
<b>National Endowment for the Humanities</b>				
Free and Equal: The Promise of Reconstruction in America	45.164	10009891	-	7,250
Conversations in Clay:The Past, Present and Future of Ceramic Art in SC	45.024	1809179-55-18	-	9,977
Free and Equal: The Promise of Reconstruction in America	45.164	BR-264610-19	111,134	134,483
America's Reconstruction: The Untold Story	45.163	ES-267039-19	-	17,285
Freedom's Lawmakers: Black Leadership during Reconstruction - Misremembering and Reclaiming Black Reconstruction Leadership	45.163	ES-267151-19	-	528
Historic Southern Naturalists: Bringing Southern History and Natural History Together Online	45.301	MA-30-18-0048-18	9,023	91,719
The Digital Piranesi	45.149	PW-264046-19	-	138,182
FOLKFabulous at the South Carolina State Fair	45.130	ZR-256701-18	-	46,486
<b>Passed through programs from:</b>				
<b>SC Humanities Council</b>				
Eyes on the Prize: 2020 Vision African American History Month at USCB	45.129	10009784	-	1,000
The Augusta Baker Lecture Series	45.129	10010001	-	1,000
Submerged: South Carolina Underwater Archaeology	45.129	18-1863-1	-	1,140
University of South Carolina Civil Rights Exhibit Justice for All: South Carolina and the American Civil Rights Movement	45.129	18-1870-1	-	5,531
Backdoor Neighbors: The Impact of "College Town" Culture on African American Community	45.129	18-1871-1	-	2,000
Life in South Carolina	45.129	19-1948-2	-	2,000
American Qur'an Art Exhibition and Public Lectures	45.129	20-1959-4	-	2,066
SC Humanities Fast Track Literary Grant: Swan Con	45.129		-	
<b>Total National Endowment for the Humanities</b>			120,157	460,647
<b>Small Business Administration</b>				
Federal And State Technology (Fast) Partnership Program	59.058	SBAHQ18G0021	-	26,563
Office of Small Business Development Centers Program Announcement - 2019 (USC)	59.037	SBAHQ19B0036	-	1,053,259
SC Small Business Development Centers Program Announcement - SBA 2020 Funding Opportunity (USC)	59.037	SBAHQ20B0059	-	475,496
CARES Act SBDC Funding Opportunity Announcement (State Director's Office)	59.037	SBAHQ20C0077	-	149,955
<b>Total Small Business Administration</b>			-	1,705,273
<b>US Department of Education</b>				
Rehabilitation Long-Term Training: Expanding the Next Generation of Psychiatric Rehabilitation Professionals	84.129	H129H140008	-	60,719
Vocational Rehabilitation Workforce Development: Increasing the Number of Qualified Vocational Rehabilitation Counselors in South Carolina (RSA LTT)	84.129	H129W150004	-	145,577
South Carolina Assistive Technology Program	84.224	H224A150040	-	(65)
Project INSPIRE: Increasing the STEM Potential of Individuals Who Read Braille	84.235	H235E1090003	-	78,226
Project FOCUS: Preparing Special Education Administrators with a Focus on Research to Practice in Transition	84.325	H325D150006	-	163,675
Project FUSION: Preparing Special Education Leaders with a Focus on Research to Practice in Transition	84.325	H325D180021	-	189,311
Project Promote: Promoting Policy, Advocacy and Legal Literacy Skills in Special Education Leaders to Serve in Schools and Communities	84.325	H325D180083	-	179,935
Project IMPACT: Impacting Adult Life Outcomes for Individuals with Severe Disabilities	84.325	H325K160020	-	335,902
The Asa Yoruba Project	84.021	P021A190033	-	5,070
Strengthening USC Upstate By Investing in Student Engagement and Advising Success	84.031	P031A140156	-	145,609
Carolina Family Engagement Center (CFEC)	84.310	U310A180058	102,833	1,052,150
University of South Carolina – Transition to Teaching Residency (UofSC-T3)	84.336	U336S190031	-	177,334
<b>Passed through programs from:</b>				
<b>Richland County School District</b>				
Evaluation of the Med Pro 21 Magnet Program for Richland School District Two	84.165	20001503/19000794	-	154,335
<b>SC Commission on Higher Education</b>				
Forward Thinking, Teaching and Learning (FTTL): Mathematics and Science Concepts in a Digital-based Society	84.367	10007435	-	(3,110)
<b>SC Department of Education</b>				
School Improvement Grant (SIG) Evaluation Plan	84.377	H63010010415	-	6,014
<b>SC Department of Health and Human Services</b>				
Team for Early Childhood Solutions Data Systems Management and Compliance Indicator Analysis	84.181	A201912946A	-	425
Team for Early Childhood Solutions Data System Management and Compliance Indicator Analysis	84.181	A202012946A	-	299,562
<b>SC Vocational Rehabilitation Department</b>				
South Carolina Academy for Students with Disabilities Curriculum	84.126	SCVRD 11537	-	386,555

***The accompanying notes are an integral part of this schedule***

**University of South Carolina**  
**Schedule of Expenditures of Federal Awards**  
**For the year ended June 30, 2020**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Other Programs, Continued</b>				
<b>US Department of Education, continued</b>				
<b>Passed through programs from, continued:</b>				
<b>The University of Nebraska-Lincoln</b>				
School Psychology Specialization in Toddlers with Autism Spectrum Disorders	84.325	24-1714-0097-004	-	5,069
<b>University of Oregon</b>				
Advancing School Mental Health and PBIS Together	84.326	282070H	-	117,374
<b>Total US Department of Education</b>			102,833	3,499,667
<b>National Archives and Records Administration</b>				
Partnering to Create Document Based Questions with Digital Collections	89.003	DH-50028-16	-	5,972
<b>Total National Archives and Records Administration</b>			-	5,972
<b>US Department of Health and Human Services</b>				
Nigeria subcontract	93.067	11540FL11	-	16,781
South Carolina Assistive Technology Program	93.464	1801SCSGAT	-	134,849
South Carolina Assistive Technology Program	93.464	1901SCATSG-00	-	454,679
Garrett Lee Smith Campus Suicide Prevention	93.243	1H79SM080473-01	-	39,481
Advanced Nursing Education Work Force (ANEW) HRSA-17-067	93.247	1T9HP30919-01-00	-	84,894
Traineeships for Nurse Anesthesia 2015	93.124	2A22HP30940-03-00	-	38,218
Developing a APRN/FQHC Practice Training Partnership	93.247	2T94HP30919-03-00	122,733	570,193
CDC Foundation Medicaid Analysis 2019	93.421	4001.01.01.04	-	60,383
Preventive Medicine and Public Health Training Program	93.117	5D33HP26995-04-00	170,865	191,565
Garrett Lee Smith Campus Suicide Prevention	93.243	5H79SM080473-02	-	50,864
The Health Occupations Providing Excellence in SBIRT (HOPES)	93.243	5H79TI026428-03	6,491	106,010
The Health Occupations Providing Excellence in SBIRT (HOPES)	93.243	5H79TI1026428-02	-	(240)
Rural Interprofessional Behavioral Health Scholars (RIBHS) Program	93.732	5M01HP31378-02-00	-	28,326
Rural Interprofessional Behavioral Health Scholars (RIBHS) Program	93.732	5M01HP31378-03-00	-	358,944
Improving the Health of People with Mobility Limitations and Intellectual Disabilities Through State-Based Public Health Programs	93.184	5NU27DD000011-03-00	16,445	32,421
Improving the Health of People with Mobility Limitations and Intellectual Disabilities Through State-Based Public Health Programs	93.184	5NU27DD000011-04-00	43,518	315,489
South Carolina University Center for Excellence in Developmental Disabilities	93.632	90DDUC0003-02-00	-	44,931
South Carolina University Center for Excellence in Developmental Disabilities	93.632	90DDUC0003-03-00	-	567,464
<b>Passed through programs from:</b>				
<b>American Association of Medical Colleges</b>				
Root Cause - Partnering for Community Health	93.967	GT-32016-19-04	-	7,989
<b>Children's Trust Fund of South Carolina</b>				
Children's Trust MIECHV Expanded Workforce Evaluation Part I	93.870	10008022	-	(1,434)
2018-2019 PASOs MIECHV Contract	93.870	10008952	-	21,236
Community Support for Young Parents (CSYP-II) Evaluation	93.500	11500FL60	-	95,333
Community Support for Young Parents (CSYP) Evaluation	93.500	11550FL43	-	351
PASOs MIECHV 2019-2020	93.870	C-MIEC-F-2018-PASOS	-	82,622
Children's Trust MIECHV Expanded Workforce Evaluation Part I	93.870	c-MIEC-F-2018-SCRHC	-	41,744
MIECHV Contract - Formula Funding 2015-2016	93.870	c-MIEC-F-2018-SCRHC	-	99,497
<b>Clemson University</b>				
Project EMPOWER - Engaging Medicine Providers On Ways to Enhance Recovery	93.243	2063-209-2012877	-	44,137
<b>Family Connection of SC</b>				
Program Evaluation for Family Connection of South Carolina	93.504	15900FL56	-	23,545
<b>LRADAC</b>				
Proposal to Serve as Outside Evaluator on Transitional Youth Services	93.243	15900FL57	-	25,897
Proposal to Serve as Outside Evaluator on Transitional Youth Services	93.243	U000026892	-	32,652
<b>Medical University of South Carolina</b>				
Leadership Education in Neurodevelopmental and Related Disorders (LEND) Subcontract	93.110	5T3MC22233-09-00 A00-0188-S002	-	144,799
Model State-Supported AHEC Program - USC Subaward	93.107	A00-0136-S001	-	11,818
Leadership Education in Neurodevelopmental and Related Disorders (LEND) Subcontract	93.110	MUSC16-094-88921	-	(5,439)
Model State-Supported AHEC Program - USC Subaward	93.107	MUSC18-067-81358	-	32,343
<b>Mental Illness Recovery Center, Inc.</b>				
Youth Homelessness Evaluation - MIRCI, Inc.	93.243	1H79SM06330-01	-	12,716
<b>National Network of Public Health Institute</b>				
Feasibility of Creating Small Area Estimates Using Weighted, Multilevel Prediction Models: an Application for the National Survey of Children's Health Phase II	93.421	G1418	-	79,711
Feasibility of Creating Small Area Estimates Using Weighted, Multilevel Prediction Models: an Application for the National Survey of Children's Health	93.421	U00026531	-	9,910
<b>Prisma Health - Upstate</b>				
Project TRANSFORM (Teaching Recovery-informed Addiction Care And Negating Stigma FOR Medical Professionals)	93.243	5219-2 H79FG0000004	-	29,424
<b>SC Court Administration</b>				
Court Administration Training Grant	93.586	2017G991513	-	(54)
Court Administration Training Grant	93.586	2018G991513	-	45,269
Court Improvement Basic Grant	93.586	2018G996437/2018G996471	-	42,379
Court Improvement Program Training Grant	93.586	2019G991513	-	119,634
Court Improvement Basic Grant	93.586	2019G996437/2019G996471	-	127,805
<b>SC Department of Health and Environmental Control</b>				
Ryan White HIV/AIDS Treatment Extension Act - Part B Supplemental Funds	93.917	10009874	-	643,561
Ryan White HIV/AIDS Treatment Extension Act - Part B Supplemental Funds	93.917	10009875	-	80,704
Ryan White HIV/AIDS Treatment Extension Act - Part B Supplemental Funds	93.917	10009876	-	2,262
SCale Down Initiative	93.758	CY-7-728	-	21,578
Palmetto Poison Center and SCDHEC Surveillance Project	93.354	CY-9-548	-	104,188
South Carolina Antimicrobial Stewardship & Resistance Prevention Network (SCARPS)	93.521	DC-7-710	-	17,563
Ryan White HIV/AIDS Treatment Extension Act - Ryan White Part B (Emerging Communities)	93.917	HV-2-572	-	(8,522)
Perinatal HIV Prevention: Comprehensive Risk Counseling and Services	93.940	HV-7-558	2,000	131,916
Ryan White HIV/AIDS Treatment Extension Act - Ryan White Part B (Emerging Communities)	93.917	HV-7-778	2,630,714	2,637,789
Ryan White HIV/AIDS Treatment Extension Act - Part B Supplemental Funds	93.917	HV-9-601	902,230	2,254,664
QI TA for SCDHEC's Perinatal and Infant Oral Health Quality Improvement Expansion Grant	93.110	MC-7-290	-	28,176
Abstinence Education Grant Program Evaluation 2017-18	93.235	MC-17-001	-	18,607
Provision of Case Management Training	93.994	MC-17-008	-	54,017
<b>SC Department of Social Services</b>				
Raising Awareness of Kinship Care	93.556	4400021778	-	50,497
<b>SC Developmental Disabilities Council</b>				
Project Connect: Connecting PSE Programs and Adult Agencies	93.630	08-21-0003	-	(9,504)
IMPACT SC Self-Advocacy Initiatives	93.630	08-21-0055	-	1,277
Model for Employment Training Advancement	93.630	09-21-0006	-	44,682
IMPACT SC Self-Advocacy Initiatives	93.630	09-21-0055	-	27,294
Project SEARCH Strand, the 2019 SC Interagency Transition Alliance Conference	93.630	09-21-0063	-	3,500
2020 SC Assistive Technology Expo	93.630	09-21-0064 1901SCSCDD-01	-	5,000
<b>SC First Steps</b>				
SC First Steps - Preschool Development Grant PASOs Contract	93.434	U00026517	5,000	74,903

***The accompanying notes are an integral part of this schedule***

**University of South Carolina**  
**Schedule of Expenditures of Federal Awards**  
**For the year ended June 30, 2020**

Federal grantor/pass-through grantor/program title	Federal CFDA number	Grant Number	Passed through to subrecipients	Expenditures
<b>Other Programs, Continued</b>				
<b>US Department of Health and Human Services, Continued</b>				
<b>Passed through programs from, continued:</b>				
<b>SC Research Foundation</b>				
South Carolina Poison Center Support and Enhancement Project	93.253	2H4BHS15545-11-00	-	254,850
Improving the Health of People with Disabilities through Stated Based Public Health Programs	93.184	5U59DD000945-03	-	71
South Carolina University Center for Excellence in Developmental Disabilities	93.632	90DD0673-04-00	-	242
South Carolina University Center for Excellence in Developmental Disabilities	93.632	90DD0673-05-00	-	(8,335)
CITIA-SC: Creating a Heathier South Carolina through Health Information Technology	93.718	90RC004701	-	(48)
South Carolina Poison Center Support and Enhancement Project	93.253	H4BHS15545-10-00	-	45,781
<b>The Aiken Center</b>				
Aiken County ATOD Comprehensive Needs Assessment	93.959	U00026713	-	8,458
<b>University of Alabama-Birmingham</b>				
An Innovative Approach to Inclusive Health	93.184	000512145-007	5,955	50,535
<b>University of North Carolina at Chapel Hill</b>				
Nursing Workforce Diversity - University of North Carolina at Chapel Hill	93.178	5113972 5D19HP308610300	-	23,261
<b>Vanderbilt University</b>				
South Carolina HIV/AIDS Clinical Training Center/Vanderbilt - AETC Base (Competing Renewal)	93.145	U1OHA30535 - VUMC56743	-	250,923
<b>Total US Department of Health and Human Services</b>			<u>3,905,951</u>	<u>11,029,026</u>
<b>US Department of Homeland Security</b>				
<b>Passed through programs from:</b>				
<b>SC Emergency Management Division</b>				
Improving Risk Assessment in Support of State Hazard Mitigation Planning	97.039	073 Billing Reference# FEMA 4166-DR-SC	-	14,449
USC Salkehatchie Hazard Mitigation Emergency Warning System	97.039	4166-DR-SC	-	22,500
USC Lancaster Emergency Warning System	97.039	FEMA-DR-4166-SC-026	-	26,700
USC Emergency Sirens and Notifications	97.036	FEMA-4241-DR-SC	-	106,530
Upstate Emergency Siren System	97.039	FEMA-4286-DR-SC	-	1,044
USC Aiken Emergency Generator	97.039	FEMA-4286-DR-SC	-	20
USC Aiken Emergency Siren	97.039	FEMA-4286-DR-SC	-	51,574
USC Sumter Emergency Siren	97.036	FEMA-4286-DR-SC	-	35,319
USC Union Emergency Notification System	97.039	FEMA-4286-DR-SC	-	49,767
<b>Total US Department of Homeland Security</b>			<u>-</u>	<u>307,903</u>
<b>Total Other Programs</b>			<u>\$ 4,234,613</u>	<u>\$ 19,313,221</u>
<b>Total Federal Expenditures</b>			<u><u>\$ 21,341,256</u></u>	<u><u>\$ 528,533,130</u></u>

***The accompanying notes are an integral part of this schedule***

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# University of South Carolina

## Notes to Schedule of Expenditures of Federal Awards For the year ended June 30, 2020

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### Note 1. Basis of Presentation

The accompanying Schedule of Expenditures of Federal Awards (the Schedule), includes the federal award activity of the University of South Carolina (the University) under programs of the federal government for the year ended June 30, 2020 and is presented on the accrual basis of accounting. The information in the Schedule is presented in accordance with the requirements of Title 2 U.S. Code of Federal Regulations Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Because the Schedule presents only a selected portion of the operations of the University, it is not intended to and does not present the financial position, changes in net position, or cash flows of the University.

### Note 2. Summary of Significant Accounting Policies for Federal Award Expenditures

Expenditures in the Schedule are determined using the cost accounting principles and procedures set forth in OMB Circular A-21, *Cost Principles for Educational Institutions* or in *Uniform Guidance*, as applicable, wherein, certain expenditures are not allowable or are limited as to reimbursement.

Negative amounts shown on the Schedule represent adjustments or credits made in the normal course of business to amounts reported as expenditures in prior years.

Expenditures for student financial aid programs include the federal share of students' Federal Supplemental Educational Opportunity Grant (FSEOG) program grants and Federal Work Study (FWS) program earnings, certain other federal financial aid for students and administrative cost allowances, where applicable.

Expenditures for nonfinancial aid awards include indirect costs, related primarily to facilities operation and maintenance and general, divisional and departmental administrative services, which are allocated to direct cost objectives (including federal awards) based on negotiated formulas commonly referred to as facilities and administrative cost rates. Facilities and administrative costs allocated to such awards for the year ended June 30, 2020 were based on predetermined fixed rates negotiated with the University's cognizant federal agency. The University has elected not to use the 10-percent de minimis indirect cost rate as allowed under the Uniform Guidance.

### Note 3. Federal Student Loan Programs

The federal student loan programs listed subsequently are administered directly by the University and the balances and transactions relating to the programs are included in the University's financial statements. Federal expenditures reported on the face of the Schedule include loans outstanding at the beginning of the year, loans made during the year, loan cancellations, interest subsidies and administrative expenses. The balance of loans outstanding at June 30, 2020 consists of:

Number	Program Name	Outstanding Balance at June 30, 2020
84.038	Federal Perkins Loan	\$ 9,403,596
93.364	Nursing Student Loans	807,445
93.342	Health Professions Student Loans	698,400
93.264	Nurse Faculty Loan Program	565,367

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## University of South Carolina

### *Notes to Schedule of Expenditures of Federal Awards* *For the year ended June 30, 2020*

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#### **Note 3. Federal Student Loan Programs, Continued**

Due to the expiration of the Federal Perkins Loan Program on September 30, 2017, the University did not disburse any Perkins loans to students during the year ended June 30, 2020. Schools have the option of continuing to collect on outstanding loan balance or can voluntarily liquidate the program. The University has no current plans to begin the Perkins liquidation process. However, the University is required to periodically return excess cash on hand from the program to the Department of Education.

The University also participates in the Federal Direct Student Loans (Direct Loans) Program (CFDA Number 84.268) of the Department of Education, which includes subsidized and unsubsidized Federal Stafford Loans and Federal PLUS Loans. Under the Direct Loans Program, the University is responsible only for certain administrative duties, accordingly, the disbursements under the Direct Loans Program and the outstanding loan balances are excluded from the financial statements of the University.

#### **Note 4. Contingencies**

The University receives funds under various federal grant programs, and such awards are to be expended in accordance with the provisions of the various grants. Compliance with the grants is subject to audit by various government agencies which may impose sanctions in the event of non-compliance. Management believes that they have complied with all aspects of the various grant provisions, and the results of adjustments, if any, relating to such audits would not have any material financial impact.

**Independent Auditor's Report on Internal Control Over Financial Reporting  
and on Compliance and Other Matters Based on an Audit of Financial Statements  
Performed In Accordance With *Government Auditing Standards***

The Board of Trustees  
University of South Carolina  
Columbia, South Carolina

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the business-type activities and the aggregate discretely presented component units of the University of South Carolina (the University), as of and for the year ended June 30, 2020, and the related notes to the financial statements, which collectively comprise the University's basic financial statements, and have issued our report thereon dated September 28, 2020. Our report includes a reference to other auditors who audited the financial statements of the South Carolina Research Foundation; University of South Carolina School of Medicine Educational Trust (the Trust); the University of South Carolina Development Foundation; the University of South Carolina Educational Foundation; the University of South Carolina Business Partnership Foundation; the Greater University of South Carolina Alumni Association; the USC Upstate Foundation and Supporting Organization; and the Educational Foundation of the University of South Carolina-Lancaster, (collectively referred to as the Trust and the Foundations), as described in our report on the University's financial statements. This report does not include the results of the other auditors' testing of internal control over financial reporting or compliance and other matters that are reported on separately by those auditors. The financial statements of the Trust, the Beaufort-Jasper Higher Education Commission, the Gamecock Club of the University of South Carolina, and the Foundations, excluding the South Carolina Research Foundation, were not audited in accordance with *Government Auditing Standards*.

**Internal Control Over Financial Reporting**

In planning and performing our audit of the financial statements, we considered the University's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the University's internal control. Accordingly, we do not express an opinion on the effectiveness of the University's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.



Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

### **Compliance and Other Matters**

As part of obtaining reasonable assurance about whether the University's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

### **Purpose of this Report**

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

A handwritten signature in black ink that reads "Elliott Davis, LLC". The signature is written in a cursive, flowing style.

Columbia, South Carolina  
September 28, 2020

**Independent Auditor's Report on Compliance for Each Major Federal Program;  
Report on Internal Control Over Compliance; and  
Report on Schedule of Expenditures of Federal Awards  
Required by the Uniform Guidance**

The Board of Trustees  
University of South Carolina  
Columbia, South Carolina

**Report on Compliance for Each Major Federal Program**

We have audited the University of South Carolina's (the University) compliance with the types of compliance requirements described in *the U.S. Office of Management and Budget (OMB) Compliance Supplement* that could have a direct and material effect on each of the University's major federal programs for the year ended June 30, 2020. The University's major federal programs are identified in the summary of auditor's results section of the accompanying Schedule of Findings and Questioned Costs.

The University's basic financial statements include the operations of the South Carolina Research Foundation (the Foundation), which expended approximately \$1.1 million in federal awards which is not included in the Schedule of Expenditures of Federal Awards during the year ended June 30, 2020. Our audit, described below, did not include the operations of the Foundation because the component unit engaged other auditors to perform an audit in accordance with the Uniform Guidance.

**Management's Responsibility**

Management is responsible for compliance with federal statutes, regulations, and the terms and conditions of its federal awards applicable to its federal programs.

**Auditor's Responsibility**

Our responsibility is to express an opinion on compliance for each of the University's major federal programs based on our audit of the types of compliance requirements referred to above. We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Those standards and the Uniform Guidance require that we plan and perform the audit to obtain reasonable assurance about whether noncompliance with the types of compliance requirements referred to above that could have a direct and material effect on a major federal program occurred. An audit includes examining, on a test basis, evidence about the University's compliance with those requirements and performing such other procedures as we considered necessary in the circumstances.

We believe that our audit provides a reasonable basis for our opinion on compliance for each major federal program. However, our audit does not provide a legal determination of the University's compliance.

## **Opinion on Each Major Federal Program**

In our opinion, the University complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended June 30, 2020.

## **Other Matters**

The results of our auditing procedures disclosed instances of noncompliance, which are required to be reported in accordance with the Uniform Guidance and which are described in the accompanying Schedule of Findings and Questioned Costs as items 2020-001, 2020-002, 2020-003, 2020-004, and 2020-005. Our opinion on each major federal program is not modified with respect to these matters.

The University's response to the noncompliance findings identified in our audit is described in the accompanying Schedule of Findings and Questioned Costs. The University's response was not subjected to the auditing procedures applied in the audit of compliance and, accordingly, we express no opinion on the response.

## **Report on Internal Control Over Compliance**

Management of the University is responsible for establishing and maintaining effective internal control over compliance with the types of compliance requirements referred to above. In planning and performing our audit of compliance, we considered the University's internal control over compliance with the types of requirements that could have a direct and material effect on each major federal program to determine the auditing procedures that are appropriate in the circumstances for the purpose of expressing an opinion on compliance for each major federal program and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, we do not express an opinion on the effectiveness of the University's internal control over compliance.

*A deficiency in internal control over compliance* exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a federal program on a timely basis. A *material weakness in internal control over compliance* is a deficiency, or combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. A *significant deficiency in internal control over compliance* is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over compliance was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies and therefore, material weaknesses or significant deficiencies may exist that were not identified. We did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses. However, we did identify certain deficiencies in internal control over compliance, described in the accompanying Schedule of Findings and Questioned Costs as items 2020-001, 2020-002, and 2020-003, that we consider to be significant deficiencies.

The University's response to the internal control over compliance findings identified in our audit are described in the accompanying Schedule of Findings and Questioned Costs. The University's response was not subjected to the auditing procedures applied in the audit of compliance and, accordingly, we express no opinion on the response.

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.

#### **Report on Schedule of Expenditures of Federal Awards Required by the Uniform Guidance**

We have audited the financial statements of the business-type activities and the aggregate discretely presented component units of the University, a component unit of the State of South Carolina, as of and for the year ended June 30, 2020, and have issued our report thereon dated September 28, 2020, which contained unmodified opinions on those financial statements. We did not audit the financial statements of the South Carolina Research Foundation; the University of South Carolina School of Medicine Educational Trust; the University of South Carolina Development Foundation; the University of South Carolina Educational Foundation; the University of South Carolina Business Partnership Foundation; the Greater University of South Carolina Alumni Association; the USC Upstate Foundation and Supporting Organization; and the Educational Foundation of the University of South Carolina-Lancaster, which are discretely presented component units of the University. Those statements were audited by other auditors whose reports have been furnished to us, and our opinions, insofar as they relate to the amounts included for these discretely presented component units, are based solely on the reports of the other auditors. Our audit was conducted for the purpose of forming opinions on the financial statements as a whole. The accompanying Schedule of Expenditures of Federal Awards is presented for purposes of additional analysis as required by the Uniform Guidance and is not a required part of the financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the Schedule of Expenditure of Federal Awards is fairly stated in all material respects in relation to the financial statements as a whole.



Columbia, South Carolina  
February 26, 2021

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**University of South Carolina*****Schedule of Findings and Questioned Costs******For the year ended June 30, 2020***

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**I. Summary of Auditor's Results****Financial Statements**

- |      |   |            |
|------|---|------------|
| (a.) | Type of auditor's report:                             | Unmodified |
| (b.) | Internal control over financial reporting:            |            |
| 1)   | Material weaknesses identified?                       | No         |
| 2)   | Significant deficiencies identified?                  | No         |
| (c.) | Noncompliance material to financial statements noted? | No         |

**Federal Awards**

- |      |   |            |
|------|---|------------|
| (a.) | Internal control over major federal programs:   |            |
| 1)   | Material weaknesses identified?   | No         |
| 2)   | Significant deficiencies identified?  | Yes        |
| (b.) | Type of auditor's report issued on compliance for major federal programs:             | Unmodified |
| (c.) | Audit findings that are required to be reported in accordance with 2 CFR 200.516 (a)? | Yes        |
| (d.) | Identification of major federal programs:   |            |

<u>CFDA Numbers</u>	<u>Name of federal program or cluster</u>
10.RD; 11.RD; 12.RD; 15.RD; 16.RD; 17.RD; 19.RD; 20.RD; 43.RD; 45.RD; 47.RD; 59.RD; 64.RD; 66.RD; 77.RD; 81.RD; 84.RD; 89.RD; 93.RD; 97.RD; 98.RD	Research and Development Cluster
84.007; 84.033; 84.038; 84.063; 84.268; 84.379; 84.408; 93.264; 93.342; 93.364	Student Financial Assistance Cluster
93.778	Medicaid Cluster
93.575	477 Cluster
93.917	HIV Care Formula Grants
84.425E; 84.425F; 84.425M	Higher Education Emergency Relief Fund (HEERF)

- |      |  |             |
|------|--|-------------|
| (e.) | Dollar threshold used to distinguish between type A and type B programs: | \$3,000,000 |
| (f.) | Auditee qualified as low risk auditee?                                   | No          |

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# University of South Carolina

## *Schedule of Findings and Questioned Costs*

*For the year ended June 30, 2020*

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### II. Financial Statement Findings:

None reported.

### III. Federal Award Findings and Questioned Costs:

#### **Finding 2020-001**

#### **Enrollment Reporting**

Federal Agency: Department of Education

Program: Student Financial Assistance Cluster – Federal Pell Grant Program (CFDA No. 84.063) and Federal Direct Student Loans (CFDA No. 84.268)

Criteria or Specific Requirement:

The National Student Loan Data System (NSLDS) is the U.S. Department of Education's centralized database for students' enrollment information. For students who receive Title IV aid, the University is required to report enrollment status changes to the NSLDS in a timely and accurate manner. These changes include reductions or increases in attendance levels, withdrawals, graduations, or approved leaves-of-absences. The University utilizes the National Student Clearinghouse (the "Clearinghouse") as a service provider for transmissions of its enrollment reporting changes to the NSLDS. The University is ultimately responsible for the timeliness and accuracy of this information even when a third-party servicer is used as an intermediary to report on the University's behalf.

Per 34 CFR 682.605(b), the school must use the withdrawal date determined under 34 CFR 668.22(c) for the purpose of reporting to the lender and the Secretary the date that the student has withdrawn from the school. Per 34 CFR 668.22(c), if a student unofficially withdraws, the withdrawal date should be the mid-point of the term or the student's last date of attendance at an academically-related activity provided that the institution documents that the activity is academically related and documents the student's attendance at the activity. Additionally, for an institution that is not required to take attendance, the institution must determine the withdrawal date for a student who withdraws without providing notification to the institution no later than 30 days after the end of the earlier of the (i) Payment period or period of enrollment; (ii) Academic year in which the student withdrew; or (iii) educational program from which the student withdrew.

Per 34 CFR 685.309(b), unless the University expects to submit its next updated enrollment report to the Secretary within the next 60 days, the University must notify the Secretary within 30 days after the date it discovers that a loan under Title IV of the Act was made to or on behalf of a student who was enrolled or accepted for enrollment at the school, and the student has ceased to be enrolled on at least a half-time basis or failed to enroll on at least a half-time basis for the period for which the loan was intended.

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# University of South Carolina

## *Schedule of Findings and Questioned Costs*

*For the year ended June 30, 2020*

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### III. Federal Award Findings and Questioned Costs, Continued

#### **Finding 2020-001      Enrollment Reporting, Continued**

**Condition:**                      The Beaufort, Lancaster, Salkehatchie, and Union campuses reported incorrect withdrawal dates to the NSLDS for students who received Title IV aid. Additionally, the Beaufort and Lancaster campuses did not report withdrawal dates for students who received Title IV aid to the NSLDS in a timely manner.

**Cause:**                              The University receives the Enrollment Reporting Roster every 60 days and updates it for changes in student status. The file is sent to the Clearinghouse, and NSLDS pulls from the Clearinghouse the first business week of each month. These students unofficially withdrew from the University during the year, and these Campuses' current grading and enrollment reporting processes did not allow for these students to be reported in a timely manner. Instead, the students' enrollment statuses were captured when the first roster file for the following semester was submitted and the students were not reported as enrolled; at this point, a withdrawal status was automatically reported with the last date of the prior term attended as the effective date. The Campuses did not update the actual effective date of withdrawal for these students.

**Effect:**                              A student's enrollment status determines eligibility for in-school status, deferment, and grace periods, as well as for the payment of interest subsidies to FFEL Program loan holders by ED. Inaccurate and untimely reporting of student enrollment status changes could result in incorrect deferment, grace periods, billing, and repayment of student loans.

**Questioned Costs:**              \$0

**Identification as a repeat finding, if applicable:**                      Although some circumstances may differ, this finding is substantially the same as finding 2019-008 that was reported the prior year.

**Context:**                              Of the 677 students who received Title IV aid and withdrew during the period July 1, 2019 through June 30, 2020, we examined 40 students' files and determined that incorrect withdrawal dates were reported to the NSLDS for 5 students. Differences in dates ranged from 14 days to 77 days. We also determined that 2 students' withdrawal dates were not reported to NSLDS within the required 60 days from the date of determination. Delays in reporting ranged from 119 to 135 days.

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## University of South Carolina

### *Schedule of Findings and Questioned Costs*

*For the year ended June 30, 2020*

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#### III. Federal Award Findings and Questioned Costs, Continued

##### **Finding 2020-001      Enrollment Reporting, Continued**

**Recommendation:** We recommend that all personnel involved in this process meet formally to address processes, scenarios, and responsibilities to ensure accuracy and consistency across all campuses. Procedures should be implemented whereby a regular review of enrollment reporting compliance requirements are taking place to ensure that reporting is in accordance with guidelines set forth in the *NSLDS Enrollment Reporting Guide* and the Department of Education's *Federal Student Aid Handbook*. Internal review of a sample of students who unofficially withdrew is recommended to ensure that procedures in place are operating effectively and federal requirements are being met.

**Views of Responsible Officials:**

Management agrees with the finding and recommendation. All University of South Carolina campuses understand the importance of accurate and timely reporting of the enrollment status change to the NSLDS database for all students who receive Title IV aid. With guidance from the Columbia campus Registrar, new procedures and processes are currently in place for accurately and timely reporting the last day of attendance to the Clearinghouse and NSLDS for students who unofficially withdraw. In addition, an internal review will be performed periodically throughout the academic year for a sample of students who have withdrawn to determine that the current procedures are operating as intended to ensure compliance with federal requirements. The Palmetto College Central Financial Aid Office will be responsible for updating NSLDS with the enrollment report for unofficial withdrawals for the Lancaster, Salkehatchie, Sumter, and Union campuses.

##### **Finding 2020-002      Return of Title IV Funds – Timely Return of Funds**

**Federal Agency:** Department of Education

**Program:** Student Financial Assistance Cluster – Federal Pell Grant Program (CFDA No. 84.063) and Federal Direct Student Loans (CFDA No. 84.268)

**Criteria or Specific Requirement:** Per 34 CFR 668.22(j)(1), the institution must return the amount of Title IV funds for which it is responsible as soon as possible, but no later than 45 days after the date of the institution's determination that the student withdrew.

**Condition/Context:** Of the 677 students who received Title IV aid and withdrew during the period July 1, 2019 through June 30, 2020, we examined 40 students' files and determined that funds were not returned timely for 13 selections from the Columbia, Salkehatchie, Sumter, Union, and Upstate campuses. All 13 selections withdrew during the Fall of 2019 semester, and the additional funds (described in the cause below) were returned greater than 45 days after the date the institution determined the student withdrew.



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# University of South Carolina

## *Schedule of Findings and Questioned Costs*

*For the year ended June 30, 2020*

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### III. Federal Award Findings and Questioned Costs, Continued

#### **Finding 2020-002      Return of Title IV Funds – Timely Return of Funds, Continued**

**Cause:** As part of its corrective action taken in response to prior year finding 2019-009, the University performed manual R2T4 calculations using the correct payment period for the students who withdrew in Fall of 2019, as it was too late to change this within Banner, the University's student information system used to administer student financial assistance. The corrected payment period included more days than the payment period used in the previous calculation, and therefore, the percentage of aid earned decreased, resulting in additional amounts due to the Department of Education. As these manual recalculations were not completed until February 2020, they were returned outside of the required 45 day window.

**Effect:** The full amount of Title IV funds was not returned timely to the Department of Education. In accordance with 34 CFR 668.84, the Secretary of Education may levy fines and/or penalties on the institution or suspend future participation in federal student financial assistance programs for failure to comply with the requirements applicable to Title IV of the HEA.

**Questioned Costs:** \$0. The amount of funds returned was correctly calculated.

**Identification as a repeat finding, if applicable:** Not a repeat finding.

**Recommendation:** We recommend the University consistently follow its policies and procedures over return of Title IV funds to ensure the return of Title IV process is fully completed including verifying that funds due to the Department of Education are returned within the required 45 days from the date the institution determines the student withdrew.

**Views of Responsible Officials:** Management agrees with the finding and recommendation. We offer the following individual campus responses:

Columbia – Management concurs with this finding and reiterates the fact that this unique one-time occurrence is a result of corrective action taken on a prior year finding. Because this was a unique one-time finding due to the implementation of a correction plan from a prior year finding, no corrective action plan is needed.

Upstate – The return of funds were calculated as a result of the prior year audit findings, which took place after the required 45 days. The changes have already been made to correct the last day of term so the R2T4 calculations should be correct going forward. Funds were manually calculated and returned to the Department of Education. Upstate funds were used so we did not have to burden students with the additional charges due to the funds being returned.

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**University of South Carolina*****Schedule of Findings and Questioned Costs******For the year ended June 30, 2020***

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**III. Federal Award Findings and Questioned Costs, Continued****Finding 2020-002      Return of Title IV Funds – Timely Return of Funds, Continued**

Palmetto College Campuses (Salkehatchie, Sumter and Union) – Management concurs with this finding. The Palmetto College campus has updated the policies and procedures to ensure that enrollment reporting is consistent with the guidelines set forth in the NSLDS Enrollment Reporting Guide and the Department of Education's Federal Student Aid Handbook as well as procedures updated by Aaron Marterer, University Registrar.

**Finding 2020-003      Calculations of Return of Title IV Funds**

Federal Agency:      Department of Education

Program:      Student Financial Assistance Cluster – Federal Direct Student Loans (CFDA No. 84.268)

Criteria or Specific  
Requirement:

When a recipient of Title IV aid withdraws from an institution during a payment period in which the recipient began attendance, the institution must determine the amount of Title IV aid that the student earned as of the student's withdrawal date (34 CFR 668.22(a)). The amount of aid earned by the student is calculated by taking the percentage of the payment period that the student attended and multiplying it by the total aid disbursed. The percentage of Title IV aid earned by the student is 100 percent if the student withdraws after completion of 60 percent of the payment period (34 CFR 668.22(e)). If the total amount of Title IV aid earned by the student is less than the amount that was disbursed to the student as of the date of the institution's determination that the student withdrew, the difference must be returned to the Title IV programs as outlined in 34 CFR 668.

The total number of calendar days in a payment period includes all days within the period that the student was scheduled to complete, except that scheduled breaks of at least five consecutive days are excluded from the total number of calendar days in a payment period and the number of calendar days completed in that period (34 CFR 668.22 (f)(i)).

Condition/Context:      Of the 677 students who received Title IV aid and withdrew during the period July 1, 2019 through June 30, 2020, we examined 40 students' files and noted four instances in which the Return of Title IV calculation was not completed accurately and in accordance with federal regulations.

Cause:      As part of its corrective action taken in response to prior year finding 2019-009, the University performed manual calculations outside of Banner using the correct payment period for students who withdrew in the Fall of 2019 semester. We noted that in three of these four instances, the student withdrew in the Fall of 2019 semester, and the underlying cause of the improper calculation was human error as these calculations were performed manually.

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# University of South Carolina

## *Schedule of Findings and Questioned Costs*

*For the year ended June 30, 2020*

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### III. Federal Award Findings and Questioned Costs, Continued

#### **Finding 2020-003      Calculations of Return of Title IV Funds, Continued**

In the fourth instance, the improper number of days of scheduled breaks was used in the calculation. This student withdrew in the Spring of 2020 semester, so the calculation was completed in Banner, not manually. The initial payment period within Banner was updated during the Spring of 2020 semester to account for an additional seven days for an extended Spring Break related to the COVID-19 pandemic. For the Upstate campus, Spring Break was not extended, and therefore, an additional seven days was improperly subtracted from the payment period to determine the earned portion of federal aid.

Additionally, these errors were not identified during the review of the calculations performed by the Student Financial Aid Offices.

**Effect:** The incorrect calculations resulted in both over and under refunding of aid to the Department of Education. From the sample tested, we identified \$65 and \$107 in Federal Direct Unsubsidized Loan funds were not returned to the Department of Education by the Aiken and Salkehatchie campuses, respectively. The Sumter campus over returned \$20 in Federal Direct Unsubsidized Loan funds to the Department of Education. For the Upstate campus, the calculation resulted in under refunding of \$67. However, this student withdrew as a result of the COVID-19 pandemic and per section 3508 of the CARES Act, return of these funds is not required. Therefore, we do not consider this amount to be questioned costs.

In accordance with 34 CFR 668.84, the Secretary of Education may levy fines and/or penalties on the institution or suspend future participation in federal student financial assistance programs for failure to comply with the requirements applicable to Title IV of the HEA.

**Questioned Costs:**      \$152

**Identification as a repeat finding, if applicable:** Although some circumstances that led to the matter may differ, this finding is substantially the same as finding 2019-009 that was reported the prior year.

**Recommendation:** We recommend that the University's Student Financial Aid Offices revise and/or implement procedures to ensure that student financial aid refunds are properly calculated and that calculations are reviewed by someone with adequate knowledge of the regulations.

**Views of Responsible Officials:** Management agrees with the finding and recommendation. We offer the following individual campus responses.

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**University of South Carolina*****Schedule of Findings and Questioned Costs******For the year ended June 30, 2020***

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**III. Federal Award Findings and Questioned Costs, Continued****Finding 2020-003      Calculations of Return of Title IV Funds, Continued**

Aiken – The institution agrees with the observation that as part of the corrective action taken in response to a prior year finding, manual calculations were performed outside of Banner using the correct payment period for students who withdrew in the Fall of 2019 semester. However, there was no error in the calculation itself (the calculated return amount to the Federal Direct Loan Program was correct) as evidenced by the R2T4 worksheets completed and scanned into Banner for the student. Rather, the \$65 in question was not returned in a timely manner. Going forward, all R2T4 returns will be reviewed on a monthly basis by the Assistant Director of Financial Aid as part of the self-audit process.

Upstate – Currently R2T4 calculations are performed by the Financial Aid Accountant and this information is forwarded to our Student Accounts Services Office and the Financial Aid Director, as a result of the findings. This allows for a greater chance of finding any issues with the return of funds, since all these individuals have knowledge of the regulations.

Palmetto College Campuses (Salkehatchie, Sumter) – Management concurs with this finding. The Palmetto College campus will not manually calculate R2T4s in the future. This process was a one-time action to correct a previous audit finding to extend the last date of the term to the final exam date based upon the procedures updated by Aaron Marterer, University Registrar.

**Finding 2020-004      Drug and Alcohol Abuse Prevention Program**

Federal Agency:      Department of Education

Program:      Student Financial Assistance Cluster (all programs)

Criteria or Specific Requirement:      Per 34 CFR 86.100 and Section 120 of the Higher Education Act, an Institution of Higher Education must adopt and implement a drug and alcohol abuse prevention program that, at a minimum, includes the annual distribution to each student and employee of—

1. standards of Conduct that clearly prohibit, at a minimum, the unlawful possession, use, or distribution of illicit drugs and alcohol by students and employees on the institution's property or as part of any of the institution's activities;
2. a description of the applicable legal sanctions under local, State, or Federal law for the unlawful possession or distribution of illicit drugs and alcohol;
3. a description of the health-risks associated with the use of illicit drugs and the abuse of alcohol;
4. a description of any drug or alcohol counseling, treatment, or rehabilitation or re-entry programs that are available to employees or students; and

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**University of South Carolina*****Schedule of Findings and Questioned Costs******For the year ended June 30, 2020***

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**III. Federal Award Findings and Questioned Costs, Continued****Finding 2020-004****Drug and Alcohol Abuse Prevention Program, Continued**

5. a clear statement that the institution will impose sanctions on students and employees (consistent with local, State, and Federal law), and a description of those sanctions, up to and including expulsion or termination of employment and referral for prosecution, for violations of the standards of conduct required by (1) above.

Additionally, the institution's program must be reviewed biennially by the institute to—

1. determine its effectiveness and implement changes to the program if they are needed;
2. determine the number of drug and alcohol-related violations and fatalities that occur on the institution's campus or as a part of any of the institution's activities and are reported to campus officials;
3. determine the number and type of sanctions described in paragraph (5) above that are imposed by the institution as a result of drug and alcohol-related violations and fatalities on the institution's campus or as part of any of the institution's activities; and
4. ensure that the sanctions required by paragraph (5) above are consistently enforced.

**Condition/Context:**

During our testing of the drug and alcohol abuse prevention program, we noted the following:

- A. For the Aiken, Columbia, Beaufort, Upstate, Sumter, Salkehatchie, Union, and Lancaster Campuses, there was no annual distribution in writing to each student and employee that contained all of the required elements.
- B. For the Upstate, Salkehatchie, and Lancaster Campuses, the biennial review did not contain information detailing the types of sanctions that were imposed by the school as a result of drug and alcohol-related violations.

**Cause:**

The campuses do not have a clear and thorough understanding of requirements.

**Effect:**

The campuses identified in the condition/context are not in compliance with 34 CFR 86.100 and Section 120 of the Higher Education Act. Failure to comply with federal standards could ultimately result in these campuses being ineligible to receive federal funds.

**Questioned Costs:**

\$0

**Identification as a repeat finding, if applicable:**

Although some circumstances may differ, and some corrective action has been implemented, this finding is substantially the same as finding 2019-007 that was reported the prior year.

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# University of South Carolina

## *Schedule of Findings and Questioned Costs*

*For the year ended June 30, 2020*

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### III. Federal Award Findings and Questioned Costs, Continued

#### **Finding 2020-004      Drug and Alcohol Abuse Prevention Program, Continued**

**Recommendation:** Each campus should produce and distribute a complete and accurate notification inclusive of all required elements and actively distribute it to all campus community members in accordance with federal requirements. Policies and procedures should be developed and enforced to ensure each campus is meeting federal requirements. These policies and procedures should address the required components of the annual notification, the methods by which it will be distributed to ensure it reaches all students and employees that are enrolled or employed by the institution at any point during the year, and the individual(s) at each campus responsible for ensuring these requirements are met. Additionally, each campus should thoroughly review the requirements under 34 CFR 86.100 and Section 120 of the Higher Education Act and make adjustments to its biennial review process to ensure compliance with the requirements.

**Views of Responsible  
Officials:**

Management agrees with the finding and recommendation. We offer the following individual campus responses:

Aiken - Management acknowledges the finding. Annual notifications have been distributed in the past but were missing one required element (a description of the health risks associated with the use of illicit drugs and alcohol). The annual notification has been updated to include a description of the health risks associated with the use of illicit drugs and the abuse of alcohol. This updated notification was distributed to all faculty and staff on October 26, 2020 and to all students on November 13, 2020. In the future, the notification will be distributed to all students and employees at the beginning of each fall and spring semester.

Columbia - Management acknowledges the finding and is working to address the finding to ensure compliance. An email was distributed to all faculty, staff, and students at the Columbia campus on November 10<sup>th</sup>, 2020. This same email will be distributed on the first day of classes of each major semester (fall and spring) to ensure continued compliance with federal regulations. This information will also continue to be distributed through the Annual Security Report, the alcohol education course required for all new undergraduate students, and New Employee Orientation.

Beaufort – Management agrees with the finding and has taken the following corrective actions to address the finding. An internal review committee was formed in fall 2019 to oversee the biennial review process for future years and ensure compliance with federal requirements each year. A plan was developed to ensure annual notification of the drug and alcohol information is sent to all students, faculty, and staff. The notifications for the 2020-2021 academic year was distributed to students on November 12, 2020 and to faculty and staff on November 13, 2020. These notifications will be distributed again in February 2021 to ensure any new students, faculty and staff have also received the information. In future years, the notification will be sent in September and February of each academic year.

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**University of South Carolina*****Schedule of Findings and Questioned Costs******For the year ended June 30, 2020***

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**III. Federal Award Findings and Questioned Costs, Continued****Finding 2020-004      Drug and Alcohol Abuse Prevention Program, Continued**

Upstate – Management acknowledges the findings and is working on updating the current Drug and Alcohol Policy to ensure compliance with federal requirements. At the start of the Fall 2020 semester, all students, faculty, and staff received an individual email covering all the required elements. Information detailing the types of sanctions that were imposed by the school as a result of drug and alcohol-related violations have been added to the biennial review.

Palmetto College campuses (Lancaster, Salkehatchie, Sumter, and Union) – Management agrees with the findings and acknowledges the continued efforts of each campus to update policies and procedures and to document reviews to ensure compliance. Individuals have been assigned responsibility for ensuring all requirements are met. All campuses have distributed the required annual notification in writing containing all the required elements to all faculty, staff and students as of November 10th, 2020. In the future, notifications will be sent each spring and fall semester (October and February) to ensure adequate coverage. For the Salkehatchie and Lancaster campuses, the 2020 biennials reviews have been completed and include the information detailing the types of sanctions that were imposed by each school as a result of drug and alcohol related violations.

**Finding 2020-005      Use of Federal Work-Study Funds**

Federal Agency:      Department of Education

Program:      Student Financial Assistance Cluster – Federal Work Study Program (CFDA No. 84.033)

Criteria or Specific Requirement:      Per 34 CFR 675.18(g), an institution must use at least seven percent of the sum of its initial and supplemental Federal Work-Study (FWS) allocations for an award year to compensate students employed in community service activities. In meeting this community service requirement, an institution must include at least one:

1. Reading tutoring project that employs one or more FWS students as reading tutors for children who are preschool age or are in elementary school; or
2. Family literacy project that employs one or more FWS students in family literacy activities.

Condition/Context:      Per our review of the Fiscal Operations Report and Application to Participate (FISAP) for Award Year July 1, 2018 through June 30, 2019, the University of South Carolina – Beaufort (USCB) was not in compliance with the FWS Community Service requirement, and did not obtain a waiver from the Department of Education. We noted that of the \$31,749 of FWS funds allocated, only \$1,245 (four percent) were used to compensate students employed in community service activities.

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# University of South Carolina

## *Schedule of Findings and Questioned Costs*

*For the year ended June 30, 2020*

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### III. Federal Award Findings and Questioned Costs, Continued

#### Finding 2020-005

#### Use of Federal Work-Study Funds, Continued

Cause: Despite numerous efforts to place students in community service positions, the USCB had difficulty attracting students to fill the positions and therefore were unable to meet the requirement.

Effect: Noncompliance with federal regulations could result in the loss of future federal financial aid funding.

Questioned Costs: The amount of questioned costs was \$978, which is the difference between the amount that should have been allocated to community service activities (\$2,223) and the actual amount allocated to community service activities (\$1,245). The \$978 was allocated by the University for Federal Work Study activities other than required community service activities.

Identification as a repeat finding, if applicable:

Not a repeat finding.

Recommendation: We recommend that USCB develop a process to facilitate placement of students in community service jobs during the year that is sufficient to meet the requirement and prevent noncompliance, or obtain a waiver from the Department of Education for this compliance requirement.

Views of Responsible Officials:

Management agrees with the finding and recommendation. While there have been no issues with noncompliance prior to fiscal year 2020, The USC Beaufort campus will request a waiver in the future. Measures to promote community service jobs will stay in place and every effort will be made to meet or exceed the seven percent requirement.





### ***Summary Schedule of Prior Audit Findings for the year ended June 30, 2019***

In accordance with *Government Auditing Standards*, issued by the Comptroller General of the United States, the following is the status of known material findings and recommendations from prior year audits:

#### **Finding 2019-001: Capital Assets:**

*Condition:* Capital assets per the University's capital asset module within PeopleSoft were not in agreement with the general ledger, resulting in an approximate \$2.1 million addition of capital assets to the University's general ledger.

*Current Action Taken/Current Status:* This finding has been cleared.

While our reconciliations did identify these errors that were corrected prior to year-end close in fiscal year 2019, the reconciliation had not been completed in previous fiscal years. The current policy of monthly reconciliation and review of the capital asset module and the general ledger is designed to promptly identify and correct any discrepancies prior to the close of the fiscal year.

#### **Finding 2019-002: Schedule of Expenditures of Federal Awards**

*Condition:* The following grant conditions were identified during the current year:

- A. During fiscal year 2019, the University made an improper reversing entry of the fiscal year 2018 federal to state revenues and expenses reclassifying entry.
- B. The University improperly recorded federal funds received from the American Recovery and Reinvestment Act Revolving Loan/Grant Program.
- C. We noted 13 projects that had the incorrect CFDA number. After correcting the CFDA numbers, we noted that 1 of these projects was included in the Medicaid Cluster and should not have been clustered, and 2 of these projects were included in the Medicaid Cluster and should have been included in the Research and Development Cluster.
- D. We noted 28 projects that were not clustered, of which 23 should have been included in the Research and Development Cluster, 4 should have been included in the Medicaid Cluster, and 1 should have been included in the CDBG – Entitlement Grants Cluster.

*Current Action Taken/Current Status:* This finding has been cleared.

Grants and Funds Management (GFM) developed an enhanced reconciliation process between the Schedule of Expenditures of Federal Awards (SEFA) and the general ledger by using newly developed queries and reports to ensure proper classification. In addition, functionality was added to the financial system to track proper CFDA classifications and clusters by each grant. Identifying grant information is verified as each grant is set up and periodic reviews are completed to ensure funds have been appropriately classified and reported for presentation on the SEFA.

## ***Summary Schedule of Prior Audit Findings, Continued***

### **Finding 2019-003: Subrecipient Monitoring**

*Condition:* For all subrecipient contracts selected for testwork subject to Uniform Guidance, the University did not complete the required risk assessment or perform any monitoring procedures for the subrecipient, as required by the Federal regulations.

*Current Action Taken/Current Status:* This finding has been cleared.

The University developed a full subrecipient monitoring program to ensure compliance with auditing standards for compliance under Uniform Guidance. The program has been fully documented and monitoring procedures, along with standard risk assessments, are in place for each subrecipient. The University has added two positions, a Compliance Manager and a Subrecipient Accountant who are responsible for sub award monitoring.

### **Finding 2019-004: Procurement, Suspension and Debarment**

*Condition:* During our testing of this program for the fiscal year ended June 30, 2019, we selected 4 vendors out of a population of 40 and found no evidence the University had complied with Uniform Guidance requirements regarding suspension and debarment verification for any of the vendors in our sample. The sample was not statistically valid. No vendors selected in our test work were listed as suspended or debarred.

*Current Action Taken/Current Status:* This finding has been cleared.

In addition to procurement screenings for suspension and debarment for purchases greater than \$50,000, processes have been developed and implemented to ensure that all vendors are checked against the federal website prior to initiating transactions. Subsequent to the initial check, all vendors are checked against the federal website on a quarterly basis.

### **Finding 2019-005: Perkins Loan Program**

*Condition:* The University did not communicate correct separation date (the date the student ceased to be at least a half-time regular student) to ECSI in a timely manner.

*Current Action Taken/Current Status:* This finding has been cleared.

Procedures are now in place for withdrawal/drop dates to be automatically communicated to ECSI via the Clearinghouse to keep it consistent with NSLDS. Manual graduation reports are no longer sent to ECSI. ECSI produces a report every Saturday of exits from the Clearinghouse for the University to review, when applicable. The Bursar's Office reviews that report every Monday to approve exits. The Bursar's Office also performs manual reviews of reports between ECSI and the University to ensure that the process put in place is working as intended. Occasionally, we find that an account did not transition as expected. In these cases, we work with ECSI to correct the account and determine where the error occurred.

## ***Summary Schedule of Prior Audit Findings, Continued***

### **Finding 2019-006: Fiscal Operations Report and Application to Participate (FISAP)**

*Condition:* The FISAP is submitted annually to report award expenditures for the previous year and to apply to participate in the following year. The University submits five separate FISAPs: one for each four-year campus (Columbia, Aiken, Beaufort, and Upstate), and one that includes all of the two-year campuses (Regionals). During our testing of the FISAPs for the program year ended June 30, 2019, we noted individuals responsible for completing the FISAP were unsure of certain reporting requirements; additionally, there was a lack of controls over the review process for the FISAP prior to submission, resulting in inaccurate costs reported. Part II, Section E, Line 24 of the report submitted for award expenditures for FY18 was inaccurate for all campuses:

- A. Upstate - Improperly excluded Teaching Fellows, thereby understating expenditures on this line by \$285,000
- B. Regionals-Improperly included SC Need Based Grants, thereby overstating expenditures on this line by \$538,785

*Current Action Taken/Current Status:* This finding has been cleared.

FISAP procedures have been updated for all campuses to expressly include Teaching Fellows and to exclude SC Need Based Grants. Internal reviews are completed prior to submission. All campuses' fiscal year 2019 FISAPS were reviewed and included all required expenditures.

### **Finding 2019-007: Drug and Alcohol Abuse Prevention Program**

*Condition:* During our testing of the drug and alcohol abuse prevention program, we noted the following:

- A. For the Columbia and Upstate Campuses, the program did not include a description of the health-risks associated with the use of illicit drugs and the abuse of alcohol;
- B. For the Columbia and Aiken Campuses, a biennial review was completed, however, it did not contain information regarding the number of drug and alcohol-related fatalities nor the number and type of sanctions that were imposed by the school as a result of drug and alcohol-related violations.
- C. For the Beaufort, Lancaster, Salkehatchie, Sumter, and Union campuses, a formal internal biennial review of the program was not performed for the years ended June 30, 2019 or June 30, 2018.

*Current Action Taken/Current Status:*

- A. This finding has been cleared.
- B. A similar finding was noted in the current year for Upstate, Salkehatchie and Lancaster campuses for the lack of sanctions information in the biennial review. The prior year finding for the Columbia and Aiken campuses has been cleared.
- C. This finding has been cleared. All campuses completed biennial reviews.

Findings related to the required annual notification was noted in the current year for all campuses.

## ***Summary Schedule of Prior Audit Findings, Continued***

### **Finding 2019-008: Enrollment Reporting**

*Condition:* The University reported incorrect withdrawal dates to the NSLDS for students who received Title IV aid. Additionally, the University did not report withdrawal dates for students who received Title IV aid to the NSLDS in a timely manner.

#### ***Current Action Taken/Current Status:***

The University of South Carolina - Columbia developed procedures to ensure that enrollment reporting is performed in accordance with guidelines set forth in the NSLDS Enrollment Reporting Guide and the Department of Education's Federal Student Aid Handbook. The development of these procedures involved all campuses, to ensure that a system-wide, consistent approach was designed and implemented. Regular reviews are conducted to ensure that these procedures are followed. For the current year, findings that were substantially the same were noted at three of the Palmetto College campuses as well as the Beaufort campus. All other campuses had no findings related to enrollment reporting.

### **Finding 2019-009: Return of Title IV Funds**

*Condition:* In performing calculations to determine the amount of aid earned by students who received Title IV funds and withdrew prior to the end of the academic term, the University used the last day of classes rather than the last day of exams to determine the payment period. This resulted in the incorrect payment period being applied in the return calculations. From a population of 782 students who received Title IV funds and withdrew from the University, 40 students were selected for testing; for 39 of these students, the University utilized an incorrect payment period when completing the required return calculation.

#### ***Current Action Taken/Current Status:***

The financial aid offices at each campus worked with their respective campus Registrar staff to ensure that the term end dates for each part of term, as configured in Banner, represent the last date of exams rather than the last date of scheduled classes. As part of the corrective action taken, the University performed manual calculations outside of Banner using the correct payment period for students who withdrew in the Fall of 2019 semester. Prior year audit exceptions were 39 out of a sample size of 40. Current year audit exceptions were 4 out of a sample size of 40.